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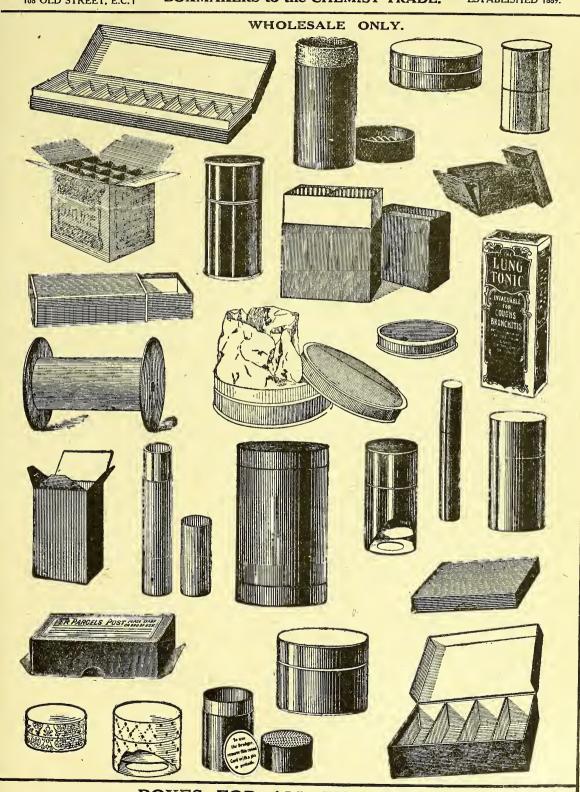
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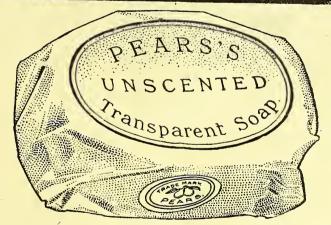
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MANSELL, HUNT, CATTY & Co., LD.,		With the Rep & Co Hat Inles, Household
MANSELL, HUNT, CATTI & Cat, 45	POOKE DR. U., LD., Buck Change	Dates 12
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MARKET & CO. LONDON, D. Supp MARSDEN, C. C., Valuer Col. Supp	1 Doer Puroquitte Acte	WILLIAMS BROS & Co. Colours
	Does Many Co. Drugs XVIII	WILLIAMSON BROS., Sundriesmen
	1 DOWLE PEADMACEUTICAL UO., 14D	
	Degree T & Co Chemicals	
	2 RUBECK, H., Thymol Text	WINTER, E., & Co., LD., Siever Bear,
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	RUCH, A., & Co., IID., Bottles Col Supp.	Which A . In Electric Laneps, ac.
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We shall be pleased to send samples and quotation for our well-known Carbolized Seed Dressing and Ground Vitriol, or to quote for any special formulæ, packed under agent's own name. If you have inquiry for LIQUID SEED DRESSING, we can supply an approved formula.

CARBOLIZED SEED DRESSING OR FARMERS' FRIEND. CHEMISTS' OWN FORMULAS.

LIQUID SEED DRESSING, NON-POISONOUS. GUARANTEED GENUINE SULPHATE OF COPPER. ALSO AGRICULTURAL STRENGTHS.

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POTATO SPRAYING

BURGUNDY MIXTURE | and all necessary BORDEAUX MIXTURE

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TOMLINSON & HAYWARD, Ltd., LINCOLN.

HAYWARD'S

Please write for Lists, Terms, etc.

Easiest to sell. Sales through Agents.

TOMLINSON & HAYWARD, LTD., LINCOLN.



New rail regulations, May lst, have materially altered the conveyance of Weed Killer. We have arranged to meet the requirements. Write to us for particulars,



October 1st.

IMPORTANT NOTICE

OF

WITHDRAWAL OF STOCK LINES

The 1/3 Size of

Dr. Rooke's SOLAR ELIXIR

AND

The 5/- Size of

Dr. Rooke's ORIENTAL PILLS

will be withdrawn from October 1st.

Stocks for exchange may be returned direct to

DR. CHAS. ROOKE, LTD., LEEDS,

or through the usual wholesalers.

Order CROSBY'S COUGH ELIXIR

NOW and be prepared for the Advertising

Campaign of this excellent se'ling Proprietary,
which will commence on October 2nd.

To avoid delay in delivery, orders should be
given as early as possible.

Dr. CHAS. ROOKE, Ltd., LEEDS

This New Idea is catching on.

Ralty Dyes are put up in glass tubes that work as easily as fountainpen fillers. The Dye cannot leave the tube except in solution. Sediment and patchy colour are impossible. There are 25 Standard Colours, and local and national advertising is making these novel and efficient home dyes exceedingly popular.



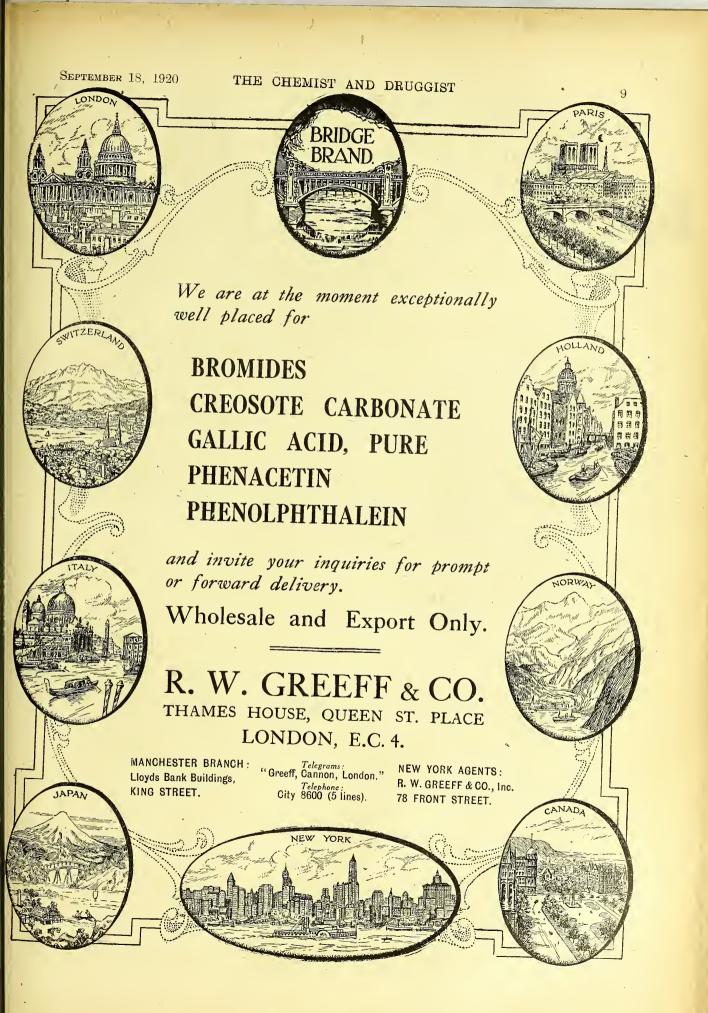
Write for Samples & Prices

Art Showcards, Counter Boxes and strong advertising are making "Ralty" Dyes al proposition worth handling. Write direct to

ECROYD & COMPANY

Mossfield Rd., Farnworth, Bolton.

Write also for Samples of Ralty Washing Blue. Liberal Trade Terms for both.





Autumn

—the awakening of the sporting instinct in every English man and woman—keen rivalry on the hockey, football and Rugby fields—numerous hard knocks and stiff, strained and weary limbs.

On the other hand, there are numerous ailments attendant on the cold wet days of Autumn—Rheumatism, Bronchitis, Sciatica, etc.

There's the demand, and here's the remedy—GLOW-WELL LINIMENT—is efficient, and its efficacy lies in its warming and pain-drawing properties which obviate the necessity for vigorous rubbing. The formula is an admirable one. The prices will helpiyou to realise that GLOW-WELL can be as popular from your personal point of view as from the public's.

Minimum Retail

Wholesale

3-oz. size 1/3 11/3 doz. 6 doz. @ 10/9 12 doz. @ 10/3

to Account.

The following is a typical Testimonial:

"Mr.—Speaks very highly of this preparation and prescribes it on every possible occasion. He has had several good words from his customers rethis, and hopes that in the Winter season it will have the big sale it deserves."

Showcard Free for any quantity.

Giant Dummy Free for 3 Doz.

Evans Sons Lescher & Webb Ltd.

Liverpool

New York

London





Page

September 18, 1920.

No. 466.

Does your Window Display include 'Parex' Manicure Methods

It is a significant fact that a prominent display of "Parex" Manicure Methods is fast becoming a feature of the windows of all progressive pharmacies.

The pharmacist has realised that "Parex" Manicure Methods are helping him to secure manicure business for himself; that "Parex" is the trade name which builds goodwill for the chemist only.

If every pharmacist devoted a part of his window display to "Parex" Manicure Methods for a week and made a point of introducing them to his customers, the business of manicure requisites would inevitably become the property of the pharmacist.

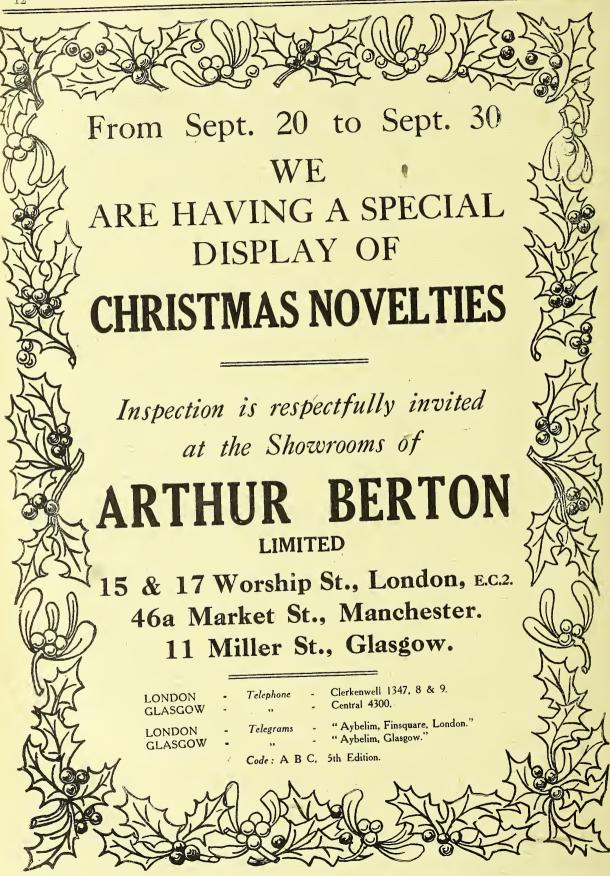
Apart from pharmacy generally, the pharmacist benefits himself individually by pushing "Parex" Manicure Methods. They carry a larger percentage of profit and a greater profit on individual sales than competitive lines. Further, they are entirely British.

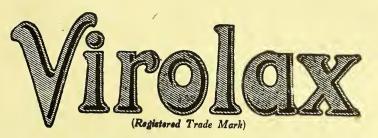
Increase your business and help pharmacy generally by cultivating "Parex" manicure business. Our representative will show you the "Parex" Manicure Methods Series, or we will send you full particulars.

Telephone:
"City 7"
(Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.L

Telegrams: "Eleven Cent, London."





THE NEW LAXATIVE FOOD

Extensive Advertising Campaign

AFTER prolonged and widespread clinical trial, both in Hospitals and by Medical Practitioners, we have decided to bring Virolax prominently before the Medical Profession.

We are addressing next week all the Medical Men in Great Britain and Ireland, and we propose to follow this up with free samples for trial.

This preliminary work will be followed up with large double column spaces in all the leading papers throughout the Country, commencing in October and continuing regularly throughout the next twelve months.

From the personal recommendation of those who have tried it, there is now a substantial demand for this preparation, and you have probably already received enquiries for it.

We anticipate, however, that as a result of the extensive campaign we are now entering upon, there will be an immediate and large demand, and we feel we may with confidence recommend you to requisition stocks at once, so that you may be in a position to meet all early enquiries.

Virolax is packed in 4 oz. and 16 oz. tins at 1/- and 2/8, and is supplied to the Trade in 1 dozen boxes at 10/- and 27/- per dozen. Terms: £3 orders carriage paid, less 5%. On orders over £5 an extra discount of 5% is allowed on condition that window display is made. These terms will also apply to combined orders for Virol and Virolax to the value of £3 and £5.

Show Cards and Advertising Material on Application

Virol, Ltd., 148-166, Old Street, London, E.C.1.

September, 1920.

THIS IS TO SHOW YOU WHAT AN EFFECTIVE WINDOW DISPLAY CAN BE MADE WITH "ZORBO" Regd. Brand ABSORBENT COTTON WOOL, BLACK SERIES —

The Packing of this Series is Superb, and in consequence only the BEST Quality Wool is used. Displayed with a background of rich red velvet or plush the Series will do credit to your pharmacy.



BLACK PACKETS. Gold Label and Red Seal. 5 sizes. 1 oz. to 1 lb.
BLACK CARTONS. Gold Label and Red

CUTTER LID TINS. Hermetically sealed, containing Sterilized Wool (superfine quality). Black Wrapped, Gold Label and Red Seal. 4 sizes. 2 oz. to 1 lb.

Seal. 5 sizes. 1 oz. to 1 lb. Prices as already quoted in this Journal or will be sent together with sample on request.

SOLE Manufacturers and Proprietors of "ZORBO" Regd. Brand—

T BAILEY & SON, Ltd. Marriott Street Mills - STOCKPORT

151 to 157 Goswell Road, LONDON, E.C. 1

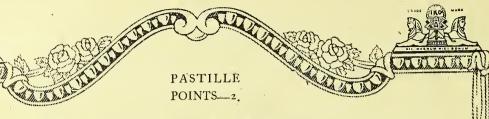


Buy your Hot Water Bottles by weight!

You can effect quite a saving by placing your contract now. The prices quoted are for Grey Indiarubber, best IXL quality, extra wide strong seams, well-fitting nickelled stopper, and spare washer. This Bottle will give full satisfaction and is guaranteed perfect. Prices are as follows:

Price per Bottle for 3 doz. lots 8/- per lb.	Size	4/6	10x6 in. 4/9	10x7 in. 5/2	10x8 in. 5/9
(Invoiced by Weight)	Size	. 12 x 6 in. 5/3	12x8 in. 6/8	12x10 in. 7/8	14x8 in, 6/10
	Size	14x10 in. 8/4	16x10 in. 9/6	16x12 in. 10/3	
Price per Bottle in 1 doz. lots 8/3 per lb.	Size	. 8×6 in. -4/8	10×6 in. 4/11	10×7 in. 5/4	10×8 in. 5/11
(Invoiced by Weight)	Size	12x6 in. 5/5	12x8 in. 6/10	12xl0 in. 7/l0	14x 8in.
	Size	14x10 in. 8/7	16x10 in. 9/9	16x12 in. 10/6	
Single Bottles.	Size	8×6 in. 4/9	10×6 in. 5/-	10×7 in. 5/5	10×8 in.
1		12×6 in. 5/6	12×8 in. 6/11	12×10 in. 7/11	14×8 in. 7/1
	Size	14×10 in. 8/9	16×10 in. 9/11	16×12 in. 10/8	

AYRTON, SAUNDERS & CO. LTD. Manufacturing Chemists



The COATING of

EMULSION ANTISEPTIC THROAT PASTILLES (KERFOOT)



L AST week this page was used to describe the superb finish of Emulsion Throat Pastilles (Kerfoot). We spoke of the outward appearance of the coating employed.

Just as the best cut clothes would soon look shabby if tailored out of inferior cloth, so, too, it is important that a pastille finish should be not only good to look at but fundamentally right in every other respect also.

This is just the claim we make for the coating of Emulsion Throat Pastilles (Kerfoot), a coating invented by us many years ago and differing radically from the established practice of those days.

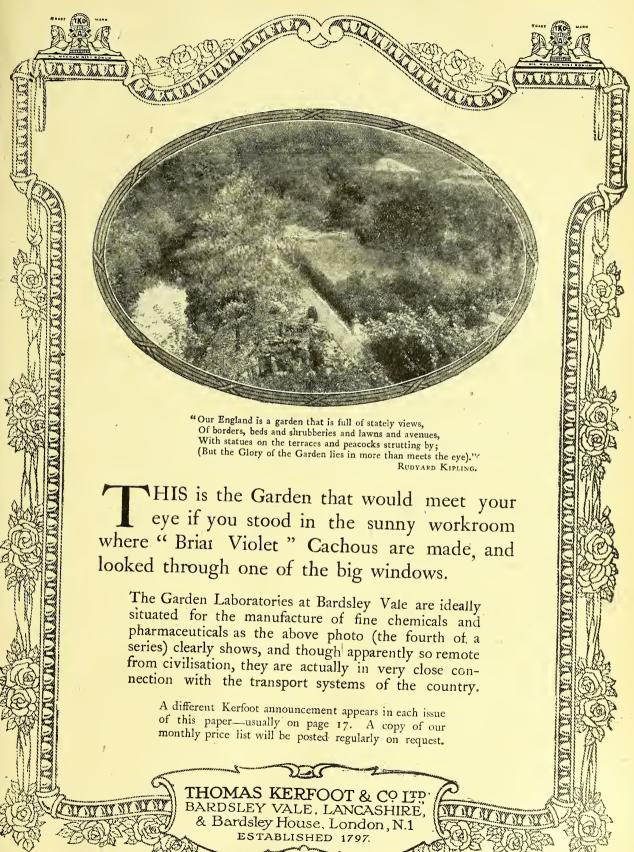
The hard and glossy surface of the Kerfoot Pastille coating does not collect dust and is always entirely pleasant to taste and smell.

The price of Emulsion Throat Pastilles (Kerfoot), is 3/3 per lb. If you already know these pastilles send us your winter order now, and we will see it is dispatched on whatever date this year you wish. If you have never stocked these pastilles, order a 7-lb. test parcel to begin with.



THOMAS KERFOOT & CO LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

18, 200 to



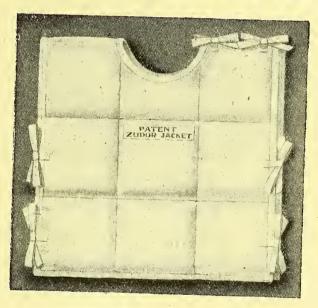






Bronchitis and Pheumonia, recommend rotector

"ZUDOR" JACKETS



In Six Sizes and Two Qualities.

(Any special size made to Order.)

Showcards and Advertising Matter supplied with each Order.	No. 1. 2. 3. 4. 5.	Across Chest 8 in. 10 in. 12 in. 15 in. 19 in. 21 in.	Shoulder to waist. 6 in. 8 in. 10 in. 12 in. 13 in.	Cotton Wool Per doz. 10/- 15/- 19/- 26/6 32/6 40/-	Retail each. 1/3 2/- 2/6 3/4 4/2 5/-	Lambs Wool Per doz. 16/- 24/- 30/- 36/- 42/- 45/-	Retail each. 2/- 3/- 3/9 4/6 5/3 6/9
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CUXSON, GERRARD & Co., Ltd. OLDBURY, near BIRMINGHAM.

N. V. Chemische Fabriek "Naarden" Bussum, Holland.

Manufacturers of Aromatic Chemicals, Flower Oils, Essential Oils, Pharmaceutical Products and Chemicals.

ALDEHYDE' ABSOLUTE. ACETIC

Almond Oil, S.P.A. Benzaldehyde, F.F.C. Camphor Oil, Essential Cinnamon Oil, B.P. Coriander Oil Clove Oil, B.P. Cumin Oil

Dill Oil Eugenol Eucalyptoi Eucalyptus Oil, B.P. Fennel Oil, Sweet Juniperberry Oil Methyl Salicylate

Oil of Mustard, Synthetic Art. Pine Needle Oil (Siberian) Peru Balsam, B.P. Peppermint Oil, B.P. Savin Oil Styrax Valerian Oil. &c.

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LAVENDER (French), SPIKE LAVENDER (French and Spanish) NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

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RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

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SOLE AGENTS FOR THE UNITED KINGDOM: STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3.

NAIL POLISH FACE CREAM. TOOTH POWDER. PASTE. POWDER. **PERFUMES** BRILLIANTINE, Solid and Liquid. VIOLET POWDER. TALCUM. TOILET OATMEAL. SHAMPOO POWDER & LIQUID. MASSAGE CREAM

Your own formula prepared, or we can supply ingredients if desired. Send for samples and quotations.

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PHONE-AVENUE 1945.

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Telephone: Clerkenwell 2096.

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BERGAMOT :: MANDARIN

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Telephone: Avenue 206 (3 lines, 7 extensions).

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OIL PEPPERMINT (Natural)

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MAGNUS, MABEE & REYNARD, Inc.

Essential Oils, Chemicals and Drugs,

NEW YORK

U.S.A.

Cables-"MAGLAUR."

SEE "DE LUZY" LINES AT OUR EXPENSE!

POUDRE, to retail at ... 10d., 1/9 and 3/3 \ All less CRÉME ,, ... 1/3, 2/6 and 3/9 \ 33\frac{1}{3}\% \ PERFUME ,, ... 5/-, 5/6, 6/6, 14/6, 16/6 and 21/-

We will send a range of samples, carriage paid, on approval; and you may return all or part, carriage forward, if you find them unsuitable.

W. H. CALNAN & CO., 30-32 Ludgate Hill, LONDON, E.C. 4.



TERPENELESS OILS BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout

WE SPECIALISE IN TERPENELESS:

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Bay Bergamot

Caraway

Cassia Cinnamon

Clove

Dill Geranium

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Lemon Limes

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-SPINELLI-

The Oils that have a Long Reputation for Quality.

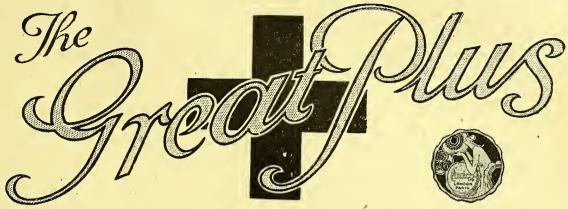
In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package, Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

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Telephone: Hop 898.

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CREME FIAMETTE

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It is our pleasure and privilege to introduce Creme Fiamette to the Trade before we introduce it to the Great British Public through the million-voiced press.

A SOUND PROPOSITION OFFERING

50% PROFIT ON RETURNS

Our window display offer, here submitted to your approval, it will be noticed, bases the profit percentage on returns, special attention is directed to these

Window Display Offers.

(Free bonus ½ doz.) Less cash payment for display Net cash outlay Net cash outlay	
Returns: Net cash outlay Net cash outlay Net cash outlay 1 0 0 5 4	
JS 007. Lifeme Hiamette	4 0
Less cost 1/3 each 2 12 6 7 doz. Creme Fiamette at 1/3 5 5 0 Less cost 1 6 0 Less cost 2 12 0 Less cost 2 12 0 Less cost 5 4	10 0 4 0

CASH PAYMENT FOR WINDOW SPACE

Let us pay for your Window Space.

WRITE :-

London. 11, Southampton Row, W.C. Apeco Ld

Rue Tailbout

LONDON & PARIS.

THE PERFUME WHICH HAS CAPTIVATED
THE PUBLIC!

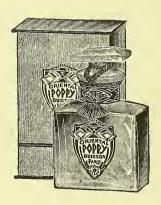
BUISSON FRERES' Oriental Poppy

An Eastern Perfume of wonderful fragrance and great lasting power, packed in dainty bottles and cartons.

BATH SALTS

ABSOLUTE PERFUME

(Without Alcohol).



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PERFUMED CARDS

PROTECTED P.A.T.A. PRICES.

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and Poudre D'Or (2/-)

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Cold Cream Rose

Wholesale 30/- per doz.

Retail 4/6.



Poudre de Perles



Wholesale 30/- per doz. Retail 4/6

Wholesale Houses already stock them, and sales have greatly increased. Many customers will not use any other powder than Bardin's.—It will pay you to stock them.

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Henroa Shampoo

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SHAMPOO

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Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

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CRYSTALLISED 1/9 CREAM 2/6

Trade Mark attached to each bottle.

(without Grease)
for THE HAIR

Sold everywhere

Established 1883.

का का का का का का का

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a idressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export
Houses on application.

Jackel et Cie (of Paris)
Ltd.
Sauchiehall Street
GLASGOW



No 9

Anzora Beta - Naphthol Soap (Powdered),

an efficient and economical Shampoo. ORDER a small quantity to begin with.

TRADE TERMS: 12/-per doz. jars 18/-

SHOWCARDS DRAW TRADE

As you are fully aware, we vigorously advertise the Anzora pair, but to still increase yoursales we offer you attractive showcards for your window display. Write to-day for the showcard illustrated.

Anzora Cream for greasy scalps and Anzora Viola for dry scalps.

TRADE TERMS:

12/- dozen ... retailed at 18/-20/- ,, ... ,, 30/-

From all' Wholesalers.

ANZORA

Masters the Hair.

Anzora Perfumery Co., Ltd., Willesden Lane, N.W. 6.

C. DAMSCHINSKY'S

AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

3/- , 22/- , , ,



This excellent Dye has an enormous Sale all over the World.

SIMPLE TO USE.

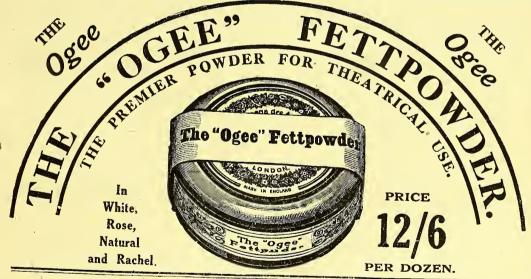
WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.

IT IS NOT A BLEACH.
WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents:

OSBORNE, GARRETT & CO., LIMITED,

LONDON, BIRMINGHAM AND GLASGOW.

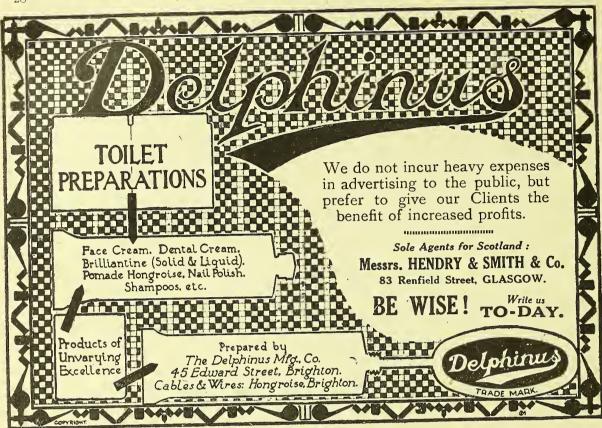


PROPRIETORS OF

THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,

AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED, BIRMINGHAM. LONDON, W. GLASGOW.



BOURJOIS & Cie, Ltd.

LONDON, E.C. 4. 66 CARTER LANE

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

1/3 size. No. 495 2/- size. No. 45 - 11/- per doz. **16**/- per doz. 1 doz. doz. 15/9 6 15/6 12

The P.A.T.A prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920,

No. 495 supplied in the United Kingdom only.

What a customer says about RAYMET SHAMPOOS!

From W. F. PEARCE, Pharmacist,

19 South Street, EXETER.

Sept. 6. 1920.

Sirs,

Please send, per return, I gross Raymet Shampoos, also bonus of Fountain Pen as advertised in the "Chemist & Druggist." Have sold your shampoos now for some time and find them the best selling line I have.

(Signed) W. F. PEARCE.

Last year we made a special bonus offer of a 14-ct. gold-nibbed Fountain Pen to Chemists who ordered I gross Raymet Henna and Quinine Shampoos at 20/-.

In response to numerous inquiries asking whether we intend to repeat the offer, we have decided to do so for one month only.

With all orders for one gross 3d. (P.A.T.A.) Raymet Shampoos received during September we will send one of these pens—equal to those usually sold at 10/6—provided one of the show outers is shown in the window for at least two weeks.

Raymet Shampoos are worthy of the premier place in your window for the following reasons—quick selling—sure repeats—attractively packed—on the P.A.T.A.—extremely profitable and a meritable preparation that will give entire satisfaction to your customers.

Price 20/- per gross (less 5% for cash) retailing at 3d. each—your profit 17/- on each gross, or 45% on turnover.

Orders executed in strict rotation. Only one pen can be sent to any one address.

RAYMET & CO., LTD.

507/509 HARROW ROAD

LONDON, W.10.

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	per dos.	Selling Price
	to Retailer. F	A.T.A.
PILENTA SOAP -	10/-	1/-
A complexion soap. PROLACTUM = =	10/-	1/-
For the lips.		· ·
PARSIDIUM JELLY	10/-	1/-
For wrinkles.	22/6	2/6
ALLACITE of ORANGE A dressing cream. BLOSSOM		2/0
BORANIUM = =	22/6	2/6
A hair tonic.	,	
CLEMINITE	22/6	2/6
For a face lotion.	20/6	2/6
COLLIANDUM	22/6	2/0
PERGOL = = =	22/6	2/6
A deodorant.	00/0	0/0
STALLAX -	22/6	2/6
For a shampoo. JETTALINE	31/6	3/6
For clearing the skin.	.,,	
PHEMINOL	36/-	4/-
A depilatory.	201	Al-
MENNALINE For the eyelashes.	36/-	4/-
MERCOLIZED WAX	31/6	3/6
A face cream.	· ·	
STYMOL	36/-	4/-
For oily complexions and blackheads BARSYDE = =	22/6	2/6
Dandruff eradicator.		· ·
TAMMALITE	22/6	2/6
For grey or faded hair.	31/6	3/6
LIQUID PERGOL = To check excessive prespiration loca		3/0
BICROLIUM	22/6	2/6
For whitening the hands.	00.0	0/0
HARAPOSA -	22/6	2/6
Nut oil shampoo.		

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:

ALL WHOLESALERS, and DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

IA:

REMP & CO., Ltd. (Bombay)

THE INTERNATIONAL TRADING CO., Princess Street (Bombay)

R. MACLURE (Madras)

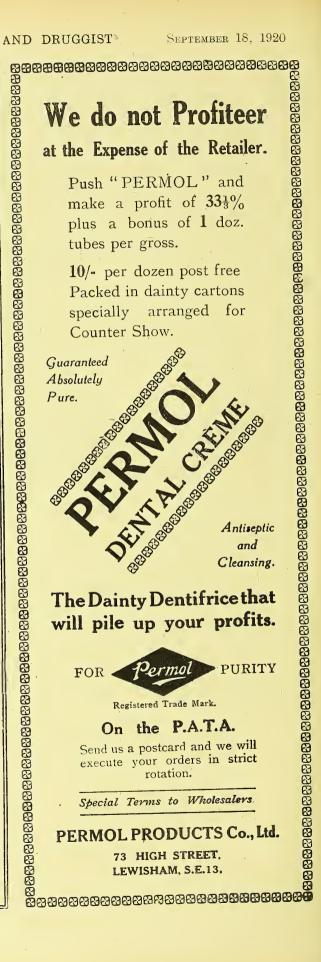
SMITH. STANISTREET & CO. (Calcutta).

MEHTA BROS. (Calcutta)

JAMNADAS BROS. (Bombay)

W ZEALAND: SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calia Salta 264, Buenos Aires.





- To Satisfy your Customers < Is to Increase your Business

LINARIS

TOILET

- (1) Give absolute satisfaction-Guaranteed
- (2) Are prepared from the finest Drugs obtainable.
- (3) Show splendid profits to the Retailer.
- (4) Invariably bring repeat orders.
- (5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

Profit of

LINARIS Vanishing Cream

LINARIS Bath Powder

LINARIS Henna Shampoo Powder LINARIS Camomile Shampoo Powder

LINARIS Massage Cream

LINARIS Tonic Cream

LINARIS Beauty Cream

LINARIS Face Powders

Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)

31 Westbourne Grove, London, W.2



Carriage paid on all orders over £5



Taxed as a Medicine

Because of its Medicinal properties every bottle of

DENTIFRICE

has been stamped under the Medicine Stamp Actwithout increase in Price to the Retailer.

This delightfully refreshing and antiseptic liquid dentifrice gives a pearly whiteness to the teeth and is highly recommended by many Doctors and Dentists as the best medium for the prevention, treatment and cure of **PYORRHCA**.

Retail 3/- per Bottle (including 6d. Government Stamp).

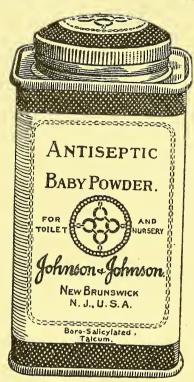
Representing an actual reduction in price. LIBERAL DISCOUNT TO THE TRADE. ATTRACTIVE SHOWCARDS SUPPLIED.

Wholesale and Export-

LACOSTE et CIE.

123a Borough High Street, London, S.E.1. Telephone: Hop 1789.

SOLD THE OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON British Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd. 104 Golden Lane - E.C. 1.

32

The Perfect Paste with the Pleasant Flavour.



Dental Paste

A Perfect Dentifrice. Pleasant to the taste. Profitable to the Retailer. Retail Price, 7½d. and 1/3.

Window display terms on application.

BERKHAMSTED. ANGLODOL, LTD.,

Telephone: BERKHAMSTED 138.

Cables and Telegrams: "ANGLODOL BERKHAMSTED."

"Comet Vacuum LASKS

Every flask tested at the works before dispatch.

Mayfair Chemical Co.,

11 Queen Victoria Street, LONDON, E.C.4.

Tel. No.: CITY 3373.

Tel, Add.: "AGENDA, CANNON, LONDON."

IMPORTANT NOTICE.

The Retail Price of Enolin Tooth Paste & Powder now is 1/6 & 10d. per tube. POWDER 1/3 & 7½d. per tin.

YOUR PROFIT INCREASED

Special Cash Allowance for Window Displays.

Write for new terms and particulars of this largely advertised proprietary to "Sales" Department.

A. & E. CARRERAS, Ltd., 207 King St., Hammersmith, W.6

Sole Export Agents :

PATTINSON & MACKIE, Ltd., Albion House, 59 New Oxford St., London, W.C.1

SALFS ALWAYS INCREASING.

KEEPS AWAY MOTH. LASTING & FRAGRANT.

and the last of th

FOR LINEN CUPBOARD AND WARDROBE. On the P.A.T.A. Retail Price 6d.

WANDA TOILET PUMMICE. WANDA NAIL POLISH. WANDA ONE-DROP PERFUME.

Of the Makers: WILLIS, LOW & DRUIFF, LTD., 33 Percy St., London, W. 1. AND ALL WHOLESALERS.

KEENOLIA

MADE UP IN TWO SIZES:

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

The .

"CASSON BRAND"

COLD CREAM LANOLINE LAVENDER ICE



THE CASSON CHEMICAL CO.

LIMITED, 44a WESTBOURNE GROVE, LONDON, W.2. Telephones: Park, 2884 & 3568.



The Flavour Pleases.

OUR BONUS TERMS.

We allow sums of 20/-, 9/6 and 4/6 for Window Displays, according to size o order. The profit is over 8d. per tube on the 1/3 size.

Write for particulars.



Educating 45 Millions

Cibbs Dentifice advertising is educative—it does not attempt to wean users from other preparations, but rather to create the desire to use Gibbs Dentifrice amongst those who have never before used a dentifrice of any kind.

A carefully prepared estimate tells us that in the whole of Great Britain only 21/2 to 3 millions of people make a habit of cleansing their teeth-at a generous estimate, 3 millions out of a total population of 48 millions—about 6 per cent.!

With such a huge field awaiting development (about 45 millions), there is no need for us to attempt to juggle with your customers. We are creating entirely new custom-helping to increase your turnover, not merely trying to switch your customers from one line to another do you appreciate the difference ?

In addition to our comprehensive press advertising, the Gibbs Educational Scheme is in full swing, In 6,000 schools throughout the country the children are receiving special instruction in the formation and care of their teeth. Prizes are being awarded in a drawing competition introducing Gibbs Dentifrice and Gibbs Dental Cream, and samples are distributed amongst the pupils for their own use. Also the usual sampling scheme and Children's Painting Competition continue with increasing popularity.

This is the reason why the sales of Gibbs Dentifrice and Gibbs Dental Cream are steadily forging ahead—and why you are being asked for these articles by people entirely new to you.

That is why it is merely a matter of ordinary business foresight for you to keep an ever-watchful eye on your stocks of Gibbs Preparations, that you may always be ready to supply that increasing band of customers who ask for "Gibbs."

D. & W. GIBBS, LTD. (Dept. S10), City Soap Works, LONDON, E.1.



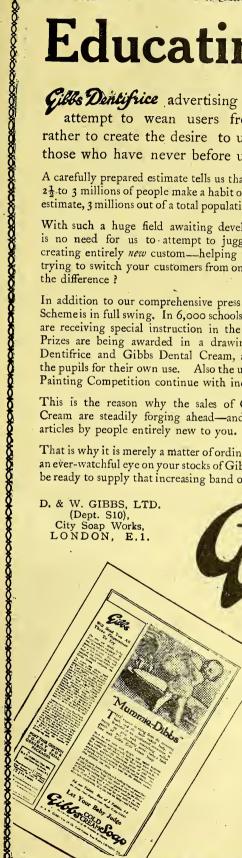
will appear in these influential media

Scientific Press.
British Dental Journal Dental Record Dental Practitioner Dental Surgeon

National Press. Daily Mail
Daily Chronicle
Evening News
Daily Mirror Bystander
(2 colours)
John Bull
Daily Mail Fashions
(3 colours)
Coming Fashions
Passing Show Daily Sketch Punch Vogue (2 colours)

Provincial Press.
Newcastle Evening Chronicle
Manchester Evening Chronicle
Yorkshire Evening Post
Yorkshire Telegraph and Star
Cardiff Evening Express
Glasgow Evening Times
Edinburgh Evening Dispatch
Dundee Evening Telegraph

Appealing to upwards of ten million Readers throughout the United Kingdom.



THE CHEMIST A					
LADIES' DRESSING COMBS. No. 103 Black celluloid	LADIES' RAKE COMBS, Size Per doz.				
GENTS' COMBS. 165 Black celluloid $6\frac{1}{2} \times \frac{7}{8}$ in. 6/6 144 Black vulcanite 7×1 in. 7/6 143 Black ,, stout 7×1 in. 8/6 203 Horn $7 \times \frac{7}{8}$ in. 9/6 A discount of 5 % for prompt cash is allowed on all tends.	SMALL TOOTH COMBS. 174 White celluloid 3 × 1\frac{3}{4} in. 4/6 170 Horn 2\frac{3}{4} × 1\frac{3}{4} in. 7/6 192 Black vulcanite 3 × 1\frac{3}{4} in. 7/6 202 Black , stout 3\frac{1}{2} × 2 in. 9/6 white of 10/- and upwards. Money returned if goods are not periode LIST, post free for the asking.				
LADIES' DRESSING COMBS. Per doz. No. Size Pe					

	Size I	Per doz.
No.	$6\frac{1}{2} \times 1\frac{1}{4}$ in.	
167 White celluloid	02 / 14 111.	12/
119 Black ,,	$8 \times 1\frac{1}{2}$ in.	13/-
190 Black ,,	$8 \times 1^{\frac{3}{4}}$ in.	15/-
	$8 \times 1^{\frac{3}{4}}$ in.	15/-
196 Black vulcanite	$7\frac{1}{2} \times 1\frac{1}{2}$ in.	
206 Horn		
207 Horn	$8 \times 1\frac{1}{2}$ in.	
117 White celluloid	$7\frac{1}{2} \times 1\frac{1}{2}$ in.	21/-
	$7\frac{1}{2} \times 1\frac{3}{4}$ in.	22/-
119 // 11106 ,,	$8 \times 1\frac{3}{4}$ in,	27/-
174 White ,,	8 14 111,	251
208 Horn, stout	$8 \times 1\frac{3}{4}$ in.	21/-
200 110111, 500 41		

165 Black	celluloid	6	$\frac{1}{2} \times \frac{7}{8}$ in.	6/6
144 Black		_	$\begin{array}{ccc} \times 1 & \text{in.} \\ \times 1 & \text{in.} \end{array}$	8/6
143 Black 203 Horn	,, stout	7	\times $\frac{7}{8}$ in.	9/6

			0	v 1	in. 18/6 in. 21/-
Black celluloid		***	0	V T	111. 10/0
			8	$\times 1$	in. 21/-
White ,,	•••		_		

174	White	celluloid	• • •		$3 \times 14 \text{ m}$	
		•••		•••	$2\frac{3}{4} \times 1\frac{3}{4}$ in.	7/-
		vulcanite			$3 \times 1^{\frac{3}{4}}$ in.	7/6
			stout		$3\frac{1}{2} \times 2$ in.	9/6
202	Black	,,	Stout	•••	02/12	· ·

We Manufacture all we sell.

We have representatives in Manchester, Glasgow & Ireland.

Wholesale & Shipping only supplied.



MANICURE SETS

MANICURE PARTS

HANDLES

NAIL FILES



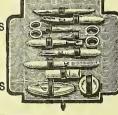
Ring up City 3526.

DRESSING COMBS

DUST COMBS

BRUSH BACKS

ERINOID ARTICLES



Factories: & Finsbury Park, London, N. Islington

MYERS, LUMOS & CO., Sales Offices - 35/6 Aldermanbury, E.C.





TITTERTON & HOWARD, Ltd., Brush Manufacturers, 8 & 10 Ct. Titchfield St., London, W.1.

FACTORY: ALBION WORKS, DALSTON LANE, E.8.

"CUTEX"

Manicure Preparations

Kindly note the following Reduction in Prices.

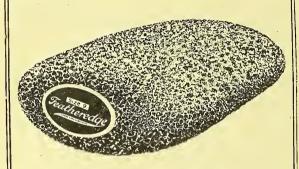
No					Doz.		
I	. The "Ideal" Cuticle Remov	zer.	small		18/-	Poto:1	Each
2	. The "Ideal" Cuticle Remov	zer-ı	medin	ım		Retail	
4	. Nail White	(CI, I	incuru		36/-	"	4/-
	Nail Polish Cake, white	_ `	-	-	18/-	"	2/-
		-	-	-	18/-	"	2/-
	Nail Polish Cake, pink	- 4	-	-	18/-	,,	2/-
	Nail Polish Cake, trial size	-	-	-	5/6	,,	$7\frac{1}{2}$ d.
		-	-	-	13/6	,,	1/6
9.	Nail Polishing Paste, pink -		-	_	18/-		2/-
10.	Nail Polishing Paste, plain -		_	_	18/-	"	· .
II.	Liquid Nail Enamel -		_	_	22/6	"	2/-
	Cuticle Comfort -						2/6
	Nail Bleach Powder -	-0	-	-	18/-	"	2/-
	Nail Rouge	•	-	-	18/-	"	2/-
			- -	-	18/–	"	2/-
	Compact Manicure Set		-	-	27/-	"	3/_
	Travelling Manicure Set -		-	-	84/-		9/6
	Boudoir Manicure Set -	e	-	_	168/-		9/-
31.	Cold Cream		_	_	18/-		
22.	Nail Polish Stick in Metal T	uhe		-	13/6	**	2/_
		abc		-	13/0	"	1/6

Henry C. Quelch & Co.

4-5 Ludgate Square, E.C. 4



RUBBER SPONCES



Are durable and do not harden.

When used with soap, they make
a delightful lather.

Obtainable of all Wholesale

Druggists' Sundries Houses

MARKT & Co., LONDON, LTD.

American Merchants

____ SOLE IMPORTERS ____

98-100 CLERKENWELL ROAD,

LONDON, E.C. 1.

Vernon Powell Rews

No. 1.

SEPT. 18, 1920

TEL.: CITY 3125

COMBS.

Vernon Powell, Ltd., of 9 & 10 St. Andrew's Hill, London, E.C. 4, hold a large and varied stock of Combs, and Wholesale Buyers and Shippers should ask for samples and quotations.

The above firm has a splendid collection of White and Black Celluloid Combs in Rakes and Dressing, which were bought under very advantageous conditions, and they are offering these goods at low prices.

GALALITH.

Vernon Powell, Ltd., are constantly receiving fresh deliveries of Galalith Dust Combs, prices range from 36'- to 100'- per gross.

SATISFACTION.

Every business concern should aim at complete satisfaction. The goods you sell must be the right goods at the right prices. A satisfied customer is a permanent customer—he places confidence in your goods. Our aim is to satisfy you and gain your confidence.

In the Wholesale Chemists' frade the name of Vernon Powell is synonymous with combs.

Vernon Powell,

Comb Specialists & Druggists' Sundriesmen,

9 & 10 St. Andrew's Hill, LONDON, E.C.4.

WRITE NOW for samples and prices.

BABY BRUSHES

BONE, EBONY & WOOD HANDLES.

Shaving Brushes

(French Manufacture)
GUARANTEED FREE OF ANTHRAX.

COMBS

RAKES, DRESSING, POCKET, ETC.

SILK BAG PUFFS.

MANICURE-

Complete Sets, and Fittings in Ebony and Ivory.

HYPODERMIC SYRINGES

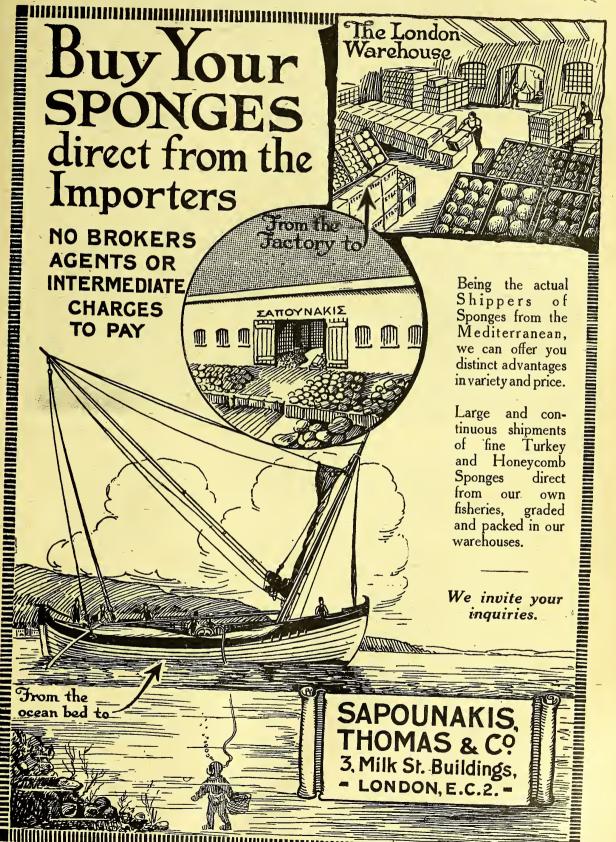
(French Made)

Camel-Hair Pencils & Mops.

A. E. DEPRETER, 24 HOLBORN, LONDON, E.C. I.

TELE PHONE: HOLBORN 3182.

TELEGRAMS: "AEDEPRELON, SMITH, LONDON."



JOB BROWNERS GUARANTEED PURE GENUINE NEWFOUNDLAND NONEREZANG MEDICINAL COD LIVER OIL

is their einert oil eroduged

lit is perfection in colour, smell, taste and absolute purity. Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address : "JOB LIVERPOOL." Tel. : 1039 CENTRAL

Established 1780.

And of ST.: JOHN'S, N.F.



Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

Telephones:
Nitshilf-Pollokshaws 14
London-Avenue 5661
(3 lines).

Y & HOPE, Ltd. "Perryope, Nitshill," "Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.



SELECTIVE SALESMANSHIP

MEANS MORE PROFIT

SELL SANAGEN and you put into profitable practice the Salesmanship principle of pushing the line that pays.

SEE THESE PRICES—

4 oz.	8 oz.	16 oz.
Cost 2/-	Cost 3/4	Cost 6/4
Sells 3/-	Sells 5/-	Sells 9/6
Profit 1/-	Profit 1/8	Profit 3/2



STOCKED BY ALL WHOLESALERS.

SANAGEN COMPANY, Ltd.

Sheepcote Lane, Battersea - LONDON, S.W. 11

Sales Agents for Scotland and Northern Counties:

H. PENNEY & CO., Royal Buildings, NEWCASTLE-ON-TYNE.

Telephone: Latchmere 4363.

Cables & Telegrams: "Phosaglyc, Batt-Square, London."

Just an example.

Pituitary Liquid is a fair specimen of the Products turned out by the Armour Laboratory.

Pituitary Liquid is a sterile, isotonic physiologically standardised solution of the Posterior Pituitary Active Principle, and is absolutely free from chemicals of any kind—preservatives are not necessary. There is no other Pituitary Preparation that is comparable to it.

As with Pituitary Liquid, so with-

PEPSIN, Scale and Powder, soluble and insoluble, ESSENCE OF PEPSIN, ORCHITIC SUBSTANCE, LACTATED PEPSIN, OVARIAN TISSUE, PANCREATIN, DUODENAL SUBSTANCE, THYROIDS, PINEAL GLAND, CORPUS LUTEUM, BENZOINATED LARD, and a full line of Organo-therapeutic agents.

Our advantages make us headquarters for the Endocrine Gland Products. Our Laboratory is devoted to medicinal preparations of animal origin. Every article manufactured in this Laboratory is a specialty and gets the care necessary to perfection.



Our price list of Products in powder, tablet and liquid form will be sent to any pharmacist on receipt of a card or letter-head. It is worth your while to have one.

ARMOUR & COMPANY, Ltd.

Queen's House, Kingsway

LONDON, W.C. 2.

Telephone: Holborn 5900.

Telegrams: "Armosata, Westcent, London."

These Tablets are Wonderful Sellers!

Tablets are not a new line, they have an established reputation, but the window display is just out. It makes an entire change from ordinary summer lines, and it is a show that will be remembered by the public long after you take it out.

For steady, all-the-year-round sales, we know of no line that can beat them, and the retail price, while showing you a good profit, is reasonable.

The show is supplied free with all orders for 56 lb. and over. It is no use ordering a small quantity for you cannot display a few pounds effectively. With 56 lb. we include 200 free cartons besides the show.

In bulk.

Prices: 28 lb. - 2/6 per lb. 56 lb. - 2/5 ,, ,,

112 lb. - **2/4** ,, ,,

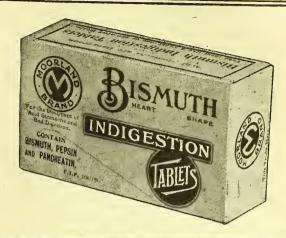
Packed.

2-oz. cartons, 60/- per gross.

5 gross lots 57/- ,,

Sole rights for the district given, so be the first to order.

This is the original Heart-shape Tablet, and still the best.





Show supplied free with 56 lb. or 3 gross packed. (Ribbon not included.)

You require both packed and bulk in the display.

W.B. Cartwright, Ltd.
Rawdon near Leeds

Australia — 297-299 Castlereagh Street, SYDNEY. 326 Flinders Lane, MELBOURNE.

New Zealand—

161 Hereford Street, CHRISTCHURCH.

Corner Albert and Durham Streets, AUCKLAND.



IN TIN, plain, lacquered or printed design. SATIN FINISHED ALU-MINIUM and NICKELLED ZINC, plain or embossed. Any size or style.

We shall be happy to submit suggestions, samples and quotations on receipt of your enquiry. We also make Automatic and Phœnix Caps, and all sizes of Cork Stoppers with metal tops, plain enamelled or printed.

ROBERTS' CAPSULE STOPPER CO. LTD

63 CANTERBURY ROAD, LONDON, S.E. 15

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

> BEST RITISH RUSHES

Please write for full Particulars to-

75 Farringdon Road, E.C. 1.

You will Save Time, Trouble and Money by sending your inquiries in the first place to the men who know their Trade.

H. MILLS & SONS,

The Premier Chemists'

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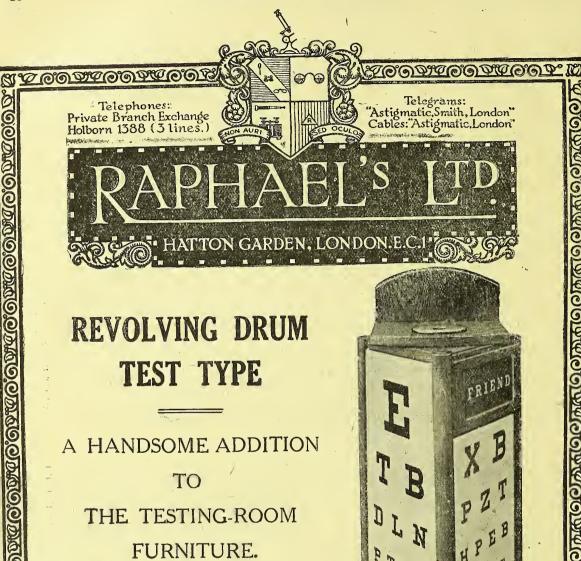
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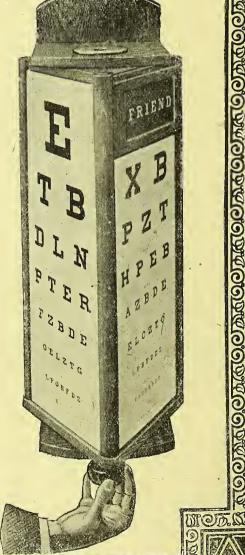


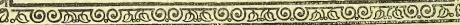
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Known, Admitted, and Approved Remedies.

Following the practice which we started some years ago we propose to reserve space in the forthcoming issue of The Chemist and Druggist Diary, 1921, for the registration of formulas for "known, admitted, and approved tion of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the medicine to the medicine as a widenes, that the medicine is tion must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. The Chemist and Druggist Diary was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopeia," and the Diary, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known admitted and approved within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the Diary. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, C. & D., 42 Cannon Street, London, E.C. 4.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D.

Philip's "Standard" Retail Price List.

The following are among the alterations and additions in the current issue of Philip's "Standard" Retail Price List: Drugs.—Ac. acetylsal., 3d. dr.; ac. citric. pulv., Hit the current issue of Fining's Scandard Recan Fired List: Drugs.—Ac. acetylsal., 3d. dr.; ac. citric. pulv., 8d. oz.; ac. tart. pulv., 6d. oz.; ammon. sulphocyan., 9d. oz.;; antim. nig. pulv., $1\frac{1}{2}d$. oz.; calc. lact., $2\frac{1}{2}d$. dr.; ess. anisi, 1 in 10, 1s. 10d. oz.; ess. limon., 1 in 12, 1s. 11d. oz.; ess. menth. pip., 1 in 10, 2s. 6d. oz.; ext. malt. c. ol. morrh., 1s. 3d. 8 oz.; ferri oxid. (carb.), 2d. oz.; femugræci pulv., $1\frac{1}{2}d$. oz.; formaldehyd. liq., 6d. oz.; fuller's earth pulv. lev. 1d. oz.; gentian, rad. pulv., 3d. oz.; glycer. boracis, 5d. oz.; inf. gent. co. conc., $3\frac{1}{2}d$. oz.; hydrokinone, 1s. 5d. oz.; inf. gent. co. conc., $3\frac{1}{2}d$. oz.; liq. pumic. pulv. lev., $1\frac{1}{2}d$. oz.; liq. cammon., $1\frac{1}{2}d$. oz.; liq. antim. chlor. coml., 4d. oz.; liq. calcis, 2d. 8 oz.; magnes. lev., $4\frac{1}{2}d$. oz.; magnes. pond., 8d. oz.; mel boracis, 3d. oz.; menthol, 1s. 2d. dr.; methyl sal., 1s. 2d. oz.; mist. sennæ co., $3\frac{1}{2}d$. oz.; naphthalin. glob., $1\frac{1}{2}d$. oz.; ol. amygdal. Ang., 8d. oz.; ol. tereb., 2d. oz.; potas. nit. coml. pulv., 2d. Co., $3\frac{1}{2}a$. oz.; naphthalm. glob., $1\frac{1}{2}a$. oz.; ol. amygdal. Ang., 8d. oz.; ol. tereb., 2d. oz.; oxymel scilke, $2\frac{1}{2}d$. oz.; potas. carb. pur., $5\frac{1}{2}d$. oz.; potas. nit. coml. pulv., 2d. oz.; potas. nit. coml. pulv., 2d. oz.; potas. nit. coml. pulv., 2d. oz.; spotas. nit. pur. pulv., 9d. oz.; sennæ fol. Alex. (2), $5\frac{1}{2}d$. oz.; sal. acetos. pulv., 9d. oz.; sennæ fruct. Alex. (2), 8d. oz.; syr. ferri phosph. c. quint et strych., $5\frac{1}{2}d$. oz.; syr. rhei., 5d. oz.; syr. scilke, $4\frac{1}{2}d$. oz.; syr. violæ, 4d. oz.; tinct. camph. co., 6d. oz.; tinct. ferri perchlor., 4d. oz.; tinct. rhei co., 7d. oz.; tinct. zingib. fort., 11d. oz.; ung. hydrarg. ammon., 7d. oz.; zinc. oxid. pur., $3\frac{1}{2}d$. oz. 3d. pt.; ol. morrhuæ nov. opt., 3s. 3d. pt.; ol. tereb., 3s. pt. 2d. pt.; ol. morrhuæ nov. opt., 3s. 3d. pt.; ol. tereb., 3s. pt. 2d. oz. bot., 2s. $1\frac{1}{2}d$.; ol. ricini opt., 2c. bot., $9\frac{1}{2}d$., 4c. bot., 1s. 2d.; syr. ferri phosph. co., 3c-oz. bot., $9\frac{1}{2}d$., 4c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 1s. 3d., 6c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 1s. 3d., 4c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 1s. 3d., 4c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 1s. 3d., 4c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 1s. 3d., 4c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 1s. 3d., 4c-oz. bot., 2s. 2d.; paraffin. liq., 4c-oz. bot., 2s. 2d.; soda mint, 2s. $4\frac{1}{2}d$.; 100, 8d.

Upwards of 700 alterations in price are recorded in the present month's issue,* most of them being in an upward

present month's issue, most of them being in an upward

direction.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report :

At Bradford, Vincent Collinson (38) committed suicide

by taking spirit of salt while of unsound mind.

At Lambton Road, London, N., a young child named
Stevens died from drinking spirit of salt left within its reach. It was stated at the inquest that the bottle containing the acid was similar in appearance to one from which the child had recently been given a dose of castor

An inquest was held at Kingston-on-Thames, on September 10, on the body of Mr. John Hicks (59), super-intendent of a local children's home. The evidence showed that on September 7 the deceased accidentally splashed some liquid from a bottle of smelling-salts into his mouth, and died a few hours later. A medical witness said that, in his opinion, death was due to shock and asphyxia following burns in his mouth, caused by spilling some strong caustic matter while attempting to use the smelling-bottle. Witness saw the bottle, the contents of which were very strong, but not stronger than he had smelled before. Mr. A. E. Bird, chemist and druggist, manager to Durbin's Drug Stores, Ltd., said he made up the smelling-salts, using the same formula that he had used for the last twenty-two years. He had never before heard of any mishap from the use of the salts, which consisted of 75 per cent. of strong ammonia mixed with layender water. The coroner recorded a verdict of lavender water. The coroner recorded a verdict of "Death by misadventure."

Contracts.

The following tenders have been accepted by the bodies named:

Orsett Guardians.—Jordan Bros., chemists, Grays, drugs.

Reigate Guardians.—Mr. F. Rogers, chemist and druggist, drugs, etc.

Swindon Guardians.—Boots, Ltd., drugs.

Trowbridge Guardians.—Mr. H. S. Aplin, chemist and druggist, sundries.

Weymouth Guardians.—Mr. M. T. Evans, chemist and druggist, dressings.

Fires.

The following outbreaks of fire have been recorded since our last report:

Damage was caused by fire to a store-room on the premises of F. H. Faulding & Co., wholesale druggists, Newington Causeway, London, S.E., on September 9.

A wax solution, boiling over, caused a blaze in the paper-processing room of the Crown Cork Co., Ltd., Paul Street, London, E.C. 2, recently. The damage was not serious.

The works of E. Wade-Wilton & Son, manufacturing chemists, Bramley, Leeds, were considerably damaged on September 9 by a fire which is attributed to some chemicals boiling over.

A storage building on the premises of Corbyn, Stacey & Co., Ltd., wholesale druggists, Commercial Road East, London, E. 14, was damaged by fire recently. A spark is believed to have caused the outbreak.

An outbreak of fire occurred on September 10 at the premises of Roberts & Sheppey, druggists' sundriesmen, Tarn Street, London, S.E.. owing to a spark from a locomotive engine. The damage was slight.

Birmingham.

The council of the local Pharmaceutical Association held a lengthy meeting on September 13. Details have not as yet been made public.

"Excellent remuneration is being offered to teachers with scientific and social qualifications at the new continuation schools," writes a correspondent.

The Lord Mayor (Alderman W. A. Cadbury) has consented, at the unanimous invitation of his colleagues, to remain in office for a further term.

Local pharmacists and their pupils have been circularised concerning the chemistry classes for students of pharmacy held at the Municipal Technical School.

The harmful effect which the spraying of plants with poisonous washes is likely to have on bees was the subject of a recent article in the Birmingham "Mail."

The increasing number of branches of banks and the disappearance of agencies in the Midlands recalls the fact that the late Mr. Frobisher, a Selly Oak chemist, was many years ago a banking agent.

The charges brought by Mr. Marshall Freeman, barrister-at-law and pharmacist, against the Civil Liabilities Department, have been substantiated by an inquiry held under the ægis of the local chamber of commerce.

Dr. T. Slater Price, who has been appointed director of research to the British Photographic Research Association, has been head of the chemical department of the Birmingham Municipal Technical School for seventeen years

Mr. A. W. Southall, Ph.C. (Southall Bros. & Barclay, Ltd.), who, as announced in the C. & D (July 10, p. 52), is retiring, has selected a residence in Gloucestershire. The council of the local association will thus be deprived of his valued services.

Birmingham Chamber of Commerce has passed a resolution against the revision of canal rates (C. & D., September 11, p. 48). The Chamber is endeavouring, through the medium of the Chancellor of the Exchequer, to induce banks to return to their pre-war hours of business.

The first meeting of the creditors of Phineas Keats, chemist and druggist, who was remanded on bail in connection with a charge of obtaining large sums by false

pretences (C. d D., September 4, p. 66), was held in Birmingham on September 10. The greater part of the money was stated to have been advanced to the debtor on agreement to receive a half-share of profits. The Official Receiver declared that under the Bankruptcy Act these claims could not be admitted until other creditors had been paid in full. The hearing of the charge of obtaining 5,200l. by false pretences was continued in Birmingham Police Court on September 15, and was again adjourned.

Bradford.

J. Savage & Co., Ltd., chemists, have increased the number of their pharmacies by opening three branches in the Wakefield Road district, at Frizinghall and Little Horton. Two of these branches were formerly drug stores.

A scheme for staffing the Bradford municipal general hospital, with the corporation as the administrative authority, has been prepared by the medical officer. Local pharmacists are watching developments with interest. It is stated that the scheme is the first of its kind submitted to the Government.

Toilet-requisites, vacuum-flasks, and photographic goods are in steady demand. The sales of cameras and photographic equipment have, this season, been larger than ever, despite high prices. At this time of the year there is usually a quiet period in the "legitimate" trade, and the present month is no exception to the rule. Large stocks of summer goods are reported unsold, but it is understood that the present year's returns compare very favourably with those of its predecessor.

Manchester.

Mr. W. H. Saunders, Liverpool, has consented to give an address, dealing with his recent world tour, before the members of the Manchester Pharmaceutical Association on December 8.

Shorter business hours do not, evidently, appeal to a number of Manchester chemists in the suburbs, where until recently they used to close at the agreed hour of 8 r.m. on Saturday. They now keep open until 9 r.m.

A whist-drive is to be held on October 6 (the first

A whist-drive is to be held on October 6 (the first Wednesday in October) at the Midland Hotel, when, it is hoped, as many members of the Manchester Pharmaceutical Association and their lady friends as possible will be present.

Liverpool.

Negotiations for the amalgamation of two old-established local retail firms are proceeding.

Several Liverpool and Wallasey guests were present at a dimer given by the Southwort Pharmacists' Association on September 14.

Mr. and Mrs. H. Humphreys Jones recently took for a motor tour in North Wales a party consisting of Mr. and Mrs. L. Moreton Parry and Mr. and Mrs. D. H. Evans.

In the pharmacies having a photographic department much interest has been taken in the novel association of photography with typography in the "strike editions" of the Liverpool evening newspapers.

Many of the printers employed on the staffs of the Hanover Street wholesale houses obeyed their union officials by returning to work as soon as the illegality of the lightning strike was indicated. Others did not ever join in the strike at all.

"The rate of exchange is against us," quoth the pharmacist to his American customer fresh from the States, "and so we are obliged to add to the face values of these goods." With a cheerful compliance the buyer placed the extra 25 per cent. on the counter.

It says something for the salubrity of the city that a central area pharmacist, who has passed the three score and ten, conducted his business throughout last week without an assistant, and yet went home at ten o'clock on Saturday night "fresh as a daisy," to use his own words.

Miscellaneous.

LINSEED.—As from September 9, 1920, linseed was removed from the list of prohibited exports from the United Kingdom.

SWIMMING TEAM RACE.—A swimming team race, The British Drug Houses, Ltd., v. Parke, Davis & Co., took place at the Marshall Street Swimming Baths, London, S.E., on September 8, the latter team winning by about twenty seconds.

THEFT OF A CAMERA.—A No. 2 c Junior Autographic Kodak camera, number 109,943, was stolen from the shop of Bruce's, Ltd., chemists, Ealing Broadway, London, W., on September 10. The thief is described as a man aged about 27, of sallow complexion, and 5 ft. 8 in. in height.

Basic Slag Prices.—Owing to the increase in railway rates, which came into force on September 1, the Ministry of Agriculture and Fisheries has been obliged to sanction the increase of the agreed maximum prices for basic slag by 3s. 6d. per ton in the case of all deliveries made on or after September 1.

Hospitals and Spirit Rebate.—It is announced that the Ministry of Health and the Scottish Board of Health are prepared to receive applications from voluntary hospitals for grants in respect of payment of duty involved by the use of duty-paid spirit, or drugs containing duty-paid spirit, for medical and surgical purposes in these hospitals during the year 1919.

COBALT AND MANGANESE ORES IN DERBYSHIRE.—A discovery of geological and commercial interest is reported to have been made in Derbyshire by Mr. C. S. Garnett, F.C.S. The discovery relates chiefly to cobalt and manganese ores, which have previously only been found in small quantities, so far as the United Kingdom is concerned, in Cornwall and Cumberland. Sulphur and cimolite (a silicate of aluminium) are among the other "finds" announced.

RICE AND RICE-FLOUR.—It is officially announced by the Ministry of Food that rice and rice-flour are now free from all restrictions with regard to both use and selling prices.—By the Profiteering Acts, 1919 and 1920, Order (No. 17), "all rice and rice products" are declared to be "articles of a kind in common use by the public" and articles to which Section 1 of the Profiteering Act, 1919, as amended by the Profiteering (Amendment) Act, 1920, applies as from September 11.

Death in a Vat.—At Southwark, London, S.E., on September 10, an inquest was held on the body of a labourer who was overcome by carbon-dioxide fumes in a vat at the vinegar brewery of Champion & Slee, Ltd. The man had descended into the vat to fetch a broom. Several attempts at rescue were made, but eventually the assistance of the fire brigade had to be requisitioned. It was stated that workmen were forbidden to enter the vat without first testing the atmosphere by lowering a lighted candle. A verdict of "Accidental death" was recorded by the coroner.

TRADE OUTINGS.—The staff of Kay Bros., Ltd., Stockport, had an outing to New Brighton on September-9. Assembling at Teviot Dale station, they were conveyed by special train to Liverpool, and, after spending the day as they desired, reassembled for an excellent tea at the Tower Gardens, New Brighton. The directors were heartily thanked for their generosity, and Mr. S. Vernon Kay replied on their behalf.—On September 8 thirty members of Boots Recreation Club, Cheltenham Spa, had an outing to Stratford-on-Avon. The party proceeded by motor charà-bancs, and, after a hearty tea at the Swan's, Nest Hotel, spent the remainder of the day viewing and photographing the historical scenes, boating on the river, etc. The arrangements were carried out by the club secretary, Mr. Herbert Langdon.

Opposition to "E.P.D."—At a meeting of the administrative committee of the National Union of Manufacturers, held on September 13, the question of further action in connection with the excess-profits duty was considered. The feeling was expressed that the continuance of this tax was largely responsible for the heavy slump in trade and the closing down of many works, and that the

Government had incurred a grave responsibility, with the direct consequence of an alarming increase of unemployment. It was decided that all new facts should be made known to the group of members of Parliament who have interested themselves in opposing the tax, with a view to further action being taken.

Massage Society.—By a Royal Charter dated June 9, 1920, the Incorporated Society of Trained Massesses and the Institute of Massage and Medical Gymnastics were amalgamated. The council, of which Sir E. Cooper Perry, M.D., is chairman, includes the founders of the Incorporated Society and of the Institute, as well as sixteen elected members and eight co-opted members, of whom five are medical men. The Queen has consented to become patroness. The object of the chartered society is to afford protection to the profession of massage and its registered members by improving the training and status of masseuses and masseurs, by providing and supervising independent examinations, by setting up registers of persons qualified to practise, and by arranging postgraduate courses, lectures, and conferences.

"Boots" and Tobacco.—It is suggested that the United Drug Company, which has acquired "Boots," is to add tobacco to its sales and thus become a serious competitor with the British selling agent. It is possible (says the "Evening Standard"), but it is worth noting that the president of the "United" has answered American critics of the deal by pointing out, among other things, that "Boots" have many "side lines" to take the place of tobacco, and by means of these attract customers to the drug counter with the same measure of success as the American shop which dispenses, in addition to its drugs, tobacco, candy, and soda water. Evidently then the introduction of tobacco has been considered and apparently regarded as unnecessary. Until further evidence is forthcoming the "Evening Standard" refuses to regard seriously an invasion of American competitors for the retail tobacco trade of this country.

In the Courts.—At Mansion House Police Court, London, on September 13, A. Josst, described as second mate of the S.S. Batavier, was charged on remand with being in unauthorised possession of five tins of prepared opium (C. & D., September 11, p. 49). There was now a further charge under the Dangerous Drugs Act (which came into force on September 1) of unlawfully having in his possession the drug in question. It was stated in evidence that the tins of opium were found in a locker of which accused had the key. His explanation was that he bought them in Rotterdam as tins of black paint. The Lord Mayor said that accused was liable to a fine of 200% and six months' imprisonment. He would be sentenced to three months' hard labour and recommended for expulsion from the country.—At Roose Petty Sessions, recently, Oswald Martin, Haverfordwest, described as a chemist, was fined 7s. 6d. for cycling without a light.—At Swansea, on September 15, Griffith J. Thomas, a soldier, was charged with the wilful murder of Elizabeth M. Davies (or Thomas) and with attempting to commit suicide. (The circumstances of the woman's death were given in the C. & D., September 4, p. 66.)

ELECTRICAL TREATMENT OF SEEDS.—Dr. E. J. Russell, director of the Rothamsted experimental station, is reported as saying that samples of seeds tested at various institutions by steeping in an electrified solution of household salt have in the main proved no better than untreated seed. Dr. Russell points out that it is possible that the drying in the treatment may be alone sufficient to help germination. In recent experiments at Wye the young plants from the electrified seed, both of oats and barley, at first showed greater vigour than those from untreated seed, but the superiority soon vanished. At Rothamsted itself no such difference was observed. Similarly adverse criticism comes from Dr. Lauder, of the Edinburgh and East of Scotland College of Agriculture, who remarks, incidentally, that no intelligible explanation of the supposed action of the electrical current is given by the inventors of the method, nor is there any proof that it actually passes through the seeds at all, and is not carried simply by the salt solution. The electric treatment of

seeds before sowing must not be confused with the method of submitting growing crops in the field to an electric discharge. In the latter method, wires supported on insulated poles are stretched over the ground above the crop; a high-tension electric current is passed through the wires, and the discharge from these is supposed to increase the yield of the crop. An interim report recently issued by the Electro-Culture Committee of the Board of Agriculture goes into the question of overhead discharge, and comes to the following general conclusion: "The results of the large scale experiments as a whole show that the electrified areas gave higher yields than the control areas. The results . . . clearly indicate the importance of pursuing the investigations until a conclusive result is attained.

INSECT PESTS.—Addressing the Sanitary Inspectors' Association at Margate on September 14, Professor Maxwell-Lefroy summed up the existing knowledge of the causation of disease by insects. It has been shown, he pointed out, that typhoid germs might retain their activity in the fly for twenty-eight days, and might at any time be ejected. The importance of the flea lay in its potentiality as a carrier of plague and of some other diseases, such as scarlet fever. It was also suggested that it was the carrier of the organism causing rheumatic fever. Should the conditions of life sink below a certain level, we might yet have to face typhus infection through lice. Professor Lefroy concluded with a reference to the menace of man's dispersal of insect pests as a result of aerial communication with distant lands. We did not, for instance, want cholera brought direct from Africa at a time when there were abundant flies to spread infection; nor did we want an airman from, say, Holland to come with a fur coat full of typhus-infected lice. Another phase was the use of insects in warfare. Releasing flies fed on a culture would spread the infection. It would be easy for the agent of a country hostile to us to liberate thousands of disease-carrying flies at a time when our own flies were abundant. One continental country would hesitate to infect another for fear of the plague spreading back to themselves, but with an island like ours, or with a continent vast as America, the use of this weapon was obvious.

Irish News.

Belfast.

The forthcoming elections to the Pharmaceutical Council are exciting considerable interest among pharmaceutical chemists and druggists in the North of Ireland.

The first annual outing of the employés of Elliott, Thompson & Blair, wholesale druggists, Corporation Street, Belfast, took place on September 4 to the gleus of Antrim. The party travelled by motor char-à-baucs. After a fine run via Larne dinner was served at Garron Tower Hotel. In two hours' time the journey was resumed, the next stop being at the entrance to the glens, from which point the party proceeded through the glens on foot. The journey by motor was then resumed to Ballymena, and tea was served in the Adair Arms Hotel. Afterwards an impromptu concert was held, and a hearty vote of thanks was passed to the firm for their generosity in providing the outing.

Dublin.

A committee meeting of the Dublin and Provincial Retail Drug Association was held in Dublin on September 8, Mr. D. M. Watson, President, in the chair. The following were also present: Messrs. R. White, G. A. McLean Lee, A. Owen Wells, Victor E. Hanna, W. F. Ellis, W. B. Conyngham, and Robert J. Kidney (secretary). Correspondence was received and dealt with from Thos. Kerfoot & Co., Ltd., and price changes were considered. Printed copies of the dispensing scale can be had from the secretary at 6d. each post free. These are suitable for pasting on cardboard to hang in dispensing departments.

This is no time to rock the boat. Cool, deliberate judgment is now at a premium.—H. M. Whelpley.

Scottish News.

The Portland Glass Co., Linlithgow, is erecting a new factory at Irvine.

Owing to the bad season, the wholesale price of heather honey, in comb or jar, has been provisionally fixed at 42s. per dozen lb., and the retail price at 4s. 6d. per lb.

Mr. W. A. J. Cameron, whose appointment to a seat on the Transvaal Pharmacy Board was published in last week's C. & D. (p. 55), was formerly an assistant with Mr. R. Thomson, chemist and druggist, Elgin.

At the recent sale of shorthorn cattle in Morayshire, on behalf of the trustees of the late Mr. MacWilliam, father of Mr. J. MacWilliam, chemist and druggist, Lenzie, a world's record was established, the average price per head being about 7401.

Mr. J. H. Taylor, chemist and druggist, has acquired the business of Mr. T. W. Straker, chemist and druggist, High Street, Linlithgow. Mr. Taylor was previously with Mr. George Somerville, chemist and druggist, South Clerk Street, Edinburgh.

A dispute between doctors and chemists has arisen in Lanarkshire. According to a correspondent of the 'Glasgow Citizen,' the doctors have hitherto contracted out to local chemists the supply of medicine for dependents of workers. The chemists have intimated that they can only undertake this work on National Insurance rates. Several of the doctors now make up their own prescrip-

Shopkeepers in Fife have been warned by an official leaflet against entrusting the repair of weighing machines to incompetent workmen. The inspector of weights and measures states that it is advisable to make it a condition that machines about a free hourse received the rectamped that machines should, after being repaired, be restamped before the charge for repair is paid. Otherwise, tradesmen may incur further expense should such scales be rejected on reverification.

There has been a demand lately by motorists for distilled water, and the question has been asked whether tilled water, and the question has been asked whether distilled water so sold is liable to duty. [In 1916 the Board of Customs and Excise furnished The Chemist AND DRUGGIST with the following ruling (C. & D., 1916, p. 731): "Non-aërated distilled water will not be charged with duty unless it is sold or kept for sale as a beverage."

"The 'Retrospect' on suuff-taking" (C. & D., September 11, p. 76), writes a correspondent, "recalls the fact that in some parts of Scotland the habit lingered long after the year 1870, and, indeed, is not altogether unknown at the present time. In many country pharmacies, the 'horn snuff-spoon,' as it lay on the counter for the benefit of all, was as familiar a chemist's landmark as the coloured carboy." mark as the coloured carboy.

Aberdeen.

The dispute between the local branch of the Shop Union and the Northern Co-operative Society Ltd. (C. & D., I., 1920, p. 841) as to the recognition of the Society's chemists and druggists who are members of the Amalgamated Society of Pharmacists, Drug and Chemical Workers, has been submitted to arbitration before the Parliamentary Committee of the British Trades Union Congress. The virtual result of the finding is that the chemists will have to be reinstated as members of the Shop Assistants' Union, and pay arrears in contributions. According to the "Aberdeen Free Press" the decision is in the following terms: Having given due consideration to the statements placed before them, the sub-committee of the Parliamentary Committee of the British Trades Union Congress come to the following conclusions with regard to item (1): Is the Amalgamated Society of Pharmacists, Drug and Chemical Workers eligible for affiliation with the British Trades Union Congress? The Parliamentary Committee had previously decided that the liamentary Committee had previously decided that the A.S.P.D.C.W. are not eligible for affiliation with the British Trades Union Congress. With reference to item (2): Does the following resolution by the directors of the

Society constitute an agreement between the Society and the National Union of Shop Assistants, Warehousemen, and Clerks, and is the claim put forward by the said Union "That the employés in the Society's drug department are required to be members of the National Union of Shop Assistants, Warehousemen, and Clerks" a valid one? The sub-committee state that as in practice resolutions communicated officially by letter by employers to trade unions are regarded as binding agreements, the Committee consider that the resolution passed by the board of directors of the Northern Co-operative Society, Ltd., constitutes an agreement between the Society and the National Amalgamated Union of Shop Assistants, Warehousemen and Člerks.

Edinburgh.

Chemists in Edinburgh and Leith will be closed on September 20, the autumn holiday.

The Portobello bottleworks dispute (C. & D., September 4, p. 68) has been settled, and work is likely to be resumed in a few days.

A woman named Martha Mulligan or Gerty was fined 21. at Edinburgh Police Court, on September 7, for attempting to commit suicide by drinking a poisonous hair-dye. The accused had on a previous occasion attempted to commit suicide by taking carbolic acid.

Glasgow.
Prospectuses have been issued for the Glasgow section Prospectuses have been issued for the Glasgow section of the British Industries Fair, which will be held in the Kelvin Hall from February 28 to March 11, 1921. The classification of exhibits includes chemicals (light and domestic chemical products. The heavy), dyes, and domestic chemical products. Kelvin Hall has recently been enlarged.

A bowling match was played between rinks representing the Glasgow and the Edinburgh Pharmacy Athletic Clubs, on Queen's Park Green, Glasgow, on September 8, resulting in a win for the visitors. A social gathering was held subsequently in the Royal Restaurant, when was held subsequently in the Royal Restaurant, when prizes, presented by James Taylor, Ltd., were given to the members of the highest-up rink on the winning side: Mcssrs, G. O. Andrew, J. D. Hamilton, Thos. Bayne, and R. Marshall. The President of the Glasgow Club, Mr. J. T. Simpson, extended a hearty welcome to the Edinburgh team, and Mr. Cochråne, in replying, gave the Glasgow men a cordial invitation to go to Edinburgh next year for a return match. The following were the "skips" and scores: and scores :

EDINBURGH.	-		Glasgow.	
R. Marshall		,	G. McDonald	 9
J. A. Cochrane		7 v.	Jas. Moir	 32
Tom King	2	3 v.	G. S. Kitchin	 15
·		_		
	5	8		56

Scottish chemists are planning a chemists' international, and are prepared to challenge the chemists of England and Wales to meet them next season.

Business Changes.

ELEL, LTD. proprietors of L.L. (Yorke's Liquid Life). have removed their registered office from 94 East Street to 114 Stanstead Road, London, S.E. 23.

Mr. C. A. L. Wiles, chemist and druggist, has acquired the business at 25 Bridge Street, Worksop, formerly carried on by Mr. T. E. Pask, chemist and druggist.

C. W. Broadbridge & Son, glass-bottle merchants, have transferred their showrooms and offices from Basinghall Avenue, London, E.C. 2, to 11 Charterhouse Street, E.C. 1.

Mr. J. Coleman, chemist and druggist, 143 Cannhall Road, Leytonstone, London, E. 11, has purchased the business of Mr. B. L. Workman, chemist and druggist, 9 Church Lane, E. 11.

Mr. James Thomson, chemist and druggist, late of Goldhawk Road, London. W.12, has purchased the business of Mr. H. C. Dadson, chemist and druggist, 725 Romford Road, Manor Park, E. 12.

German News.

PLATINUM SCARCITY.—The German Association of Technical and Scientific Corporations has submitted a petition to the Government asking for a return to the various institutions of the platinum requisitioned during the war. As it would require an enormous sum to purchase this amount at the present moment, it is suggested that all the platinum found in the possession of illicit dealers in metals should be confiscated and handed to this association. Further, it is suggested that the various samples of platinum ore in mineralogical collections, some of which are very rich in metal and of a considerable size, should be utilised for the supply of this precious metal, and also that the platinum in the possession of jewellers should be seized.

A SUBSTITUTE FOR ETHYL ALCOHOL.—The high price and shortage of ethyl alcohol has induced the Prussian Board of Health to investigate the possibilities of substituting of reach to investigate the possibilities of substituting the use of ethyl alcohol by that of propyl alcohol in certain preparations. Pharmacological experiments showed that propyl alcohol exhibits qualitatively the same properties as ethyl alcohol, but quantitatively is twice as powerful—e.g., in precipitating albumin and as regards narcotic effect. Very little is known about its action on informal administration, so that for the research internal administration, so that for the present its use in such preparations should be avoided, but there are no objections to using it for the preparation of cosmetics. In Sweden and in Norway normal propyl alcohol has been tried in the place of ethyl alcohol for disinfecting the hands. However, it is pointed out that so soon as the synthetic production of acetone is perfected, and at a lower cost, it will replace the use of ethyl alcohol in suitable cases

WAGES IN THE FRANKFORT CHEMICAL INDUSTRY.—The following proposals, made by the Höchst Dye Works, the Griesheim-Elektron Works, Cassella-Fechenheim, and the Deutsche Gold, und Silberscheideanstalt, have been accepted by the employes on the condition that they only apply to the works mentioned: An additional 10 per cent. to be paid on the gross wages from June 25 to July 31, 1920. From August 1, 1920, an additional 75 pfennig on the tariff wages for workmen over twenty-one years of age, and 50 pfcnnig for women workers over twenty. The forty-eight-hours' working week to be adopted. If the earnings are diminished, owing to reduced output, voluntary additional payments to be made by the various works. In a special declaration the Employers' Union states that the employers are willing to take into account the tax which is deducted from the wages by allowing an extra 50 pfennig per hour for workmen over twentyonc years of age, and proportionate increases to women workers and younger men. Both parties have now agreed that in future the tax must, according to the law, be paid by the working themselves.

MEETING OF THE ASSOCIATION OF GERMAN CHEMISTS.—
The first peace meeting of the Verein Deutscher Chemiker was held on September 9 at Hanover. At the opening session Professor Fischer, of the Coal Research Institute at Mülheim, discussed coal as the source of new chemical products and gave a detailed account of the important products and gave a detailed account of the important new researches regarding the obtaining of low-temperature coal-tar. It was a question of extending the fundamental raw material, which should be possible with the help of hydrogen in coal, as well as with atmospheric oxygen. Professor Tacke, of Bremen, discussed the uses of peat, and referred to the importance of the extensive mocals for the reconstruction. moors for the reconstruction of Germany. Professor Goldschmidt, of Berlin, stated that means must be found to produce aluminium more cheaply, and by a less complicated process, perhaps by electro-thermic methods: while the obtaining of spelter was also carried on at a loss of from 6 to 8 per cent., although zinc refining by the electro-thermic process was being carried on successfully. Germany, he said, remained unexcelled for aniline dyes, and foreign countries should not be deluded into thinking that they can reach her level in this branch without more ado.

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Colonial and Foreign News.

EXAMINATIONS IN HOLLAND.—A Royal Order was issued in Holland on August 20 giving a list of the members of the commissions who have been appointed for the ensuing twelve months in order to undertake the practical examination of candidates seeking to qualify in pharmacy at Leiden, Utrecht, Groningen, and Amsterdam. Most of the members and vice-members are connected with the State universities at the first three towns and the Communal University at Amsterdam.—After two years' consideration the report has been published of the commission which was deputed to inquire into the organisation and working of the pharmaceutical service in the army.

RURAL PHARMACIES IN ITALY.—Signor Ferrero, President of the Associazione Nazionale dei Farmacisti Rurali, states that the pharmacies in Italian cities earn just what profits they wish for, but they represent only 10 per cent. of the total number of pharmacies in the whole of Italy. Twenty per cent, is formed by the pharmacies in the smaller towns and 20 per cent, by those in important districts, while 50 per cent. of the pharmacies are situated in small country localities, where the owners almost live in want. These rural pharmacies are not self-supporting, which is proved by the fact that they are vanishing by hundreds every year. One thousand pharmacies have been closed since the passing of the Giolitti law in 1913, which aimed at assisting these rural businesses, and the process

continues with increasing anxiety. CINCHONA GRAFTING.—From the time when the cultivation of cinchona was first undertaken in Java, attempts were made to propagate this plant by asexual means. The first attempts in this direction were made with slips, a method which proved successful with Cinchona officinalis and Succirubra, but yielded unsatisfactory results with Ledgeriana. Grafting also proved unsatisfactory, until it was studied by an expert, Veulemans, and in the early days this operation was conducted in the hothouse, whereas now it is performed on the open plantation. method consists in grafting ripe wood on to two buds, and if properly carried out yields a very high percentage of successful results, on an average 98 per cent. It is usually performed by two persons, one cutting the bud and grafting the piece on to it, and binding it, while the second smears the graft with wax. This operation can be performed throughout the whole year, but the best results are obtained during the East monsoon period. If the graft has been successful the branch above the graft is cut down; some planters allow both grafts to grow whereas others prefer to cut off one of the two young shoots, as this yields a more uniform growth of the stem.

CHEMICALS IN RUSSIA.—Soviet newspapers report that the Council of National Welfare has elaborated a plan for the erection of a number of factories for the manufacture of superphosphates, recognising the absolute necessity of increasing the productivity of the soil by the supply of fertilisers. In 1912 Russia utilised 17,000,000 puds of superphosphates, and Professor Samoslow has stated that Russia possesses immense deposits of the necessary minerals for the manufacture of super-phosphates. It is also stated that superphosphate works have already been erected at Petrograd, Nishni Novgorod, and Kineshma. It is now proposed to erect several factories for the production of saltpetre, and one of these is stated to be nearing completion and is expected to yield 10.000 to 14,000 puds of potassium nitrate. As a substitute for lacquer, the Central Chemical Laboratory has suggested the following mixture, which has been adopted the post and telegraph service: Camphor 20.5, tar 47.8, varnish 13.6, and glycerin 18.1 per cent. The absence of colours has led to a decision to erect a small factory in which the deposits of ochre found in the district of Kuznetsk, in the Saratov Government, are to be utilised, at the suggestion of the Soviet magistrate No information regarding the actual of that district. application of these proposals is available, nor concerning the results, if any, so far achieved.

CANADIAN PHARMACEUTICAL ASSOCIATION.—The annual conference was held in Montreal on August 16, with Mr. Barnabe, the President, in the chair. The Mayor of Barnabe, the President, in the chair. The Mayor of Montreal welcomed the Association to Montreal, and Mr. Vadboncœur, President of the Quebec Association, welcomed the conference to the province. The President delivered his address on Tuesday, and then followed reports of various committees. The Committee on Commercial Interests recommended higher prices for prescriptions and the adoption of the world "Lignol" in place of wood alcohol. Another committee recommended the publication of a revised edition of the "Canadian Formulary," while the Committee on Pharmaceutical Education suggested the standardisation of pharmaceutical curricular throughout the Dominion. The suggested minimum course at an approved College of Pharmacy is to include two at an approved College of Pharmacy is to include two terms with at least 1,000 hours, instruction. The officers elected for the ensuing year include Mr. J. E. Tremble (Montreal), President; Mr. E. J. Hoag (Kingston), Vice-President; and Mr. G. E. Gibbard (Toronto), Secretary and Treasurer. The meeting in 1921 is to be held on board a ship, with calls at Charlottetown, P.E.I., Halifax, N.S., and St. John, N.B.

IN A STAMBOUL MARKET.—Writing in a recent issue of "The Daily Telegraph." Mr. Perceval Landon gives an interesting description of the "little market of the spicemen" in Stamboul. The following is an extract: "To the left... is a glass tray heaped with a pyramid of the left... is a glass tray heaped with a pyramid of the left... dull reddish-brown dust, which only a dyer would know was henna. It is used in the East for more serious purposes than in Paris or London, for did not the Prophet say that the prayer of a greybeard could not reach Allah's ears? As a matter of fact, Mohammed said nothing of the sort, but the widespread conviction among unlettered Arabs that he did accounts not only for the henna here, but for the parti-coloured beards of Arab seamen, homeward bound, who have run out of the dye, and return home with an inch of white separating their crimson home with an inch of white separating their crimson beards from their deep walnut faces. Here are madder roots from Anatolia and powdered sandalwood from Malabar, blobs of red gum—the dragon's blood of the Yemen—and several kinds of saffron or kurkum. This merchant evidently specialises in dyestuffs, as one can have been secretary to the several the deep secretary of learners, the buy here gamboge and the deep scarlet of kermes—the pounded-up bodies of the would-be mothers of some vegetable parasite. Khol, of course, he has, both dry and fluid, and if you were to ask him, he might find for you both opinm and hashish. . . . His neighbour has tall glass pots full of mullein and lime flowers from Belgrade Forest outside the city, and there is a drawer full of poppy-heads from Ajaristan. . . He has balsams drained from every tree that science or superstition has sanctified, aniseed and balm of Mecca, galbanum from the giant fennel of Oxia or Mazanderan . . . and cardamons. Pepper that Aldhelm of Sherborne brought back from Kottyam to King Alfred, and turmeric, orange, and yellow and gold. . . .

Coming Events.

Saturday, September 18.

Grocers' and Provision Dealers' Exhibition and Market. Royal Agricultural Hall, London, N.1. Remains open until September 24.

LIVERPOOL CHEMISTS' ASSOCIATION.—The opening meeting of the coming session, on September 29, will take the form of a whist-drive and social evening. Mr. A. W. Asheroft will preside. Tickets (1s. 6d. each) may be obtained from Mr. A. S. Furniss, 531 Presect Road, Old Swan, or from any member of the ladies' committee.

Committee. (Western) Pharmacists' Association.—The annual reunion will be held on September 30, at Pinoli's Restaurant, Wardour Street, W.1. There will be a reception by the President 47 r.m., followed by supper and a whist-drive. Tickets (6s. each) may be obtained from the Secretaries and members of the Committee: application not later than September 25 is requested.

A LICENCE has been issued by the Board of Trade to the British Launderers' Research Association under the conditions laid down in the Government scheme for the encouragement of industrial research.

Breach of Contract.

In the City of London Court, on September 14, Mr. Gerald J. B. Gaunt, chemical manufacturer, trading as Raoul Frères, 6 Holborn Viaduct, London, E.C. 1, sued the Indian and Eastern Druggist, Ltd., 49 and 50 Watling Street, E.C. 4, for 100% damages for breach of a contract to advertise in the "Indian and Eastern Druggist, Pharmacist, and Buyers' Guide." Mr. Zeffert appeared for the plaintiff and Mr. Trusted for the appeared for the plaintiff, and Mr. Trusted for the defendants. Mr. Zeffert said the plaintiff started his business in 1914, and when the war broke out he went to France to fight for his country. In 1918, when he came back, he restarted his business, and decided to advertise in the defendants' paper, a new paper intended to develop all chemical industries in India and the East. The defendants issued a pamphlet headed "The Wealth of the East" in which they could that the of the East," in which they said that the opportunities afforded by the present state of readjustment in worldcommerce conditions were unprecedented, and that those who now left the East severely alone because orders were plentiful for home and other markets would surely regret it. They maintained that until their publication was English people dealing with India or the East at all.

They stated there had been no pharmacy paper of interest to English people dealing with India or the East at all.

They stated that there was a large demand for chemicals in the East, and that there was an apportunity for chemical merchants who first got on the ground to do a huge trade. It was impossible to send commercial travellers out to India and get in touch with buyers, and therefore the "Indian and Eastern Druggist" had been started, claiming that the journal would make its definite objective the carrying to the maximum number of potential buyers the trade offers of firms having drugs, chemicals, proprietaries, and allied products to sell. The defendants maintained that the publication was a link between the Western exporter and the Eastern importer, and would secure for the manufacturers a firm footing in India and the East capable of unlimited expansion. Defendants published their first number in April, and the plaintiff gave the defendants an order to insert his advertisement twelve times for 2l. per insertion for a quarter of a page. In the first number the defendants stated at the outset that there was a distinct and promising field for an organ such as the "Indian and Eastern Druggist" was intended to be; the originators and promoters of the enterprise were confident that their promoters of the enterprise were confident that their project would meet with ready support from manufacturers and exporters, who saw the desirability and advantage of extending their trade in markets that were waiting to be developed. "That this support has been forthcoming," they added, "in no small degree is evidence of the fact that men of great business acumen and experience have realised that the 'Indian and Eastern Druggist' provides a medium hitherto unavailand experience have reansed that the Indian and Eastern Druggist' provides a medium hitherto unavailable whereby they will be enabled to reach potential buyers in the rich markets of the East to which this journal will carry their trade announcements." They journal will carry their trade announcements. They also said that the journal would circulate in India, Ceylon, Burmah, Siam, China, Persia, Straits Settlements, Gibraltar, Malta, Egypt, Syria, etc. It was to be published monthly. Assistant Judge Jackson said the defendants had evidently inserted an excellent puff of their own journal. There was an excellent puff of their own journal. There was probably some stratum of truth in their announcement. Mr. Zeffert said his case was that it was all true. The advertising of the defendants journal was extremely well done. After the plaintiff's advertisement had appeared once the defendants for two months left his advertisement out of their journal. It was true they went on inserting it again, but the plaintiff now asked for heavy and substantial damages for the harm which had been occasioned to his business in India through leaving his advertisement out of the defendants' journal for two months. Plaintiff received orders as a result of his adverinstance. I fainth received orders as a result of his advertisement appearing in the first number of the defendants' journal, but those fell off as soon as the advertisement was discontinued. There was evidently a very strong reason

why the defendants had omitted plaintiff's advertisement for two months. Mr. Gaunt was called, and he said chemical business with India was largely done through advertising in trade journals. When Indian people sent him orders they did not say where they had seen his advertisement, so he was unable to trace the orders necessarily to the defendants' journal, In cross-examination, he said he had no doubt whatever that his business had suffered in consequence of the defendants withholding his advertisement. Mr. Zeffert urged that there was a strong reason why the defendants had left the advertisement out, and he suggested that it had been done at the instance of some other advertiser who was anxious to prevent the plaintiff getting the trade which he was out for. Defendants had given no explanation as to why the advertisements were left out. Defendants had certainly not taken that course for nothing. Mr. Trusted, defendants' counsel, said he did not propose to call any evidence. but he contended that the plaintiff had suffered no damage. Mr. Zeffert had a suffered no damage. dealt with the seamy side of trade journalism, which did not affect the case. The reason why the advertisements were left out had nothing to do with the case. The contract was for twelve months' insertions, but that did not mean twelve consecutive months. Assistant Judge Jackson: I am against you on that. Mr. Trusted urged that the measure of damage to which the plaintiff might become entitled was the business which had been lost through the failure to insert his advertisement, and he urged that the plaintiff had given no evidence of loss of business. Assistant Judge Jackson said he was satisfied there had been a breach of contract, but he had a hed there had been a breach of contract, but he had a difficulty in arriving at the amount which he must award to the plaintiff. There was no proof why the advertisement had been left out in May and June. It might be merely the mistake of a clerk in the advertising department but on the whole he must find for the plaintiff for the plaintiff. ment, but on the whole he must find for the plaintiff for 25l. and costs. He had arrived at the amount in a very rough-and-ready way.

Bankruptcy Report.

Re John de Lysle, 47-8 Berners Street, London, W.-A sitting of the London Bankruptcy Court was appointed to be held on September 14 before Mr. Registrar Stiebel for the public examination of this debtor, who carried on for the public examination of this debtor, who carried on business as a manufacturer of chemicals, perfumes, and toilet requisites, in connection with which he formed The Lysle Distributing Agency, Ltd., Lylco, Ltd., and Lysle Export and Import Co., Ltd. In his preliminary examination the debtor estimated his unsecured liabilities at £5,000, and denied insolvency, asserting that if he could fairly realise his assets they would yield much more than sufficient to discharge all his debts in full. Mr. W. P. Bowyer, Senior Official Receiver, reported that the Receiving Order was made on July 9, and the debtor a few days later attended before the Exemples and conditions. few days later attended before the Examiner and gave some particulars regarding his affairs generally. After that his movements, so far as the Court was concerned, were a blank, and a statement had appeared in the public Press to the effect that he flew away to France on July 14. A warrant for his arrest was obtained on July 14. A warrant for his arrest was obtained on July 15, but it has not yet been executed. In these circumstances he had to ask for the public examination to stand adjourned sine die. His Honour made an order

Gazette.

Bankruptcy Acts.

RECEIVING ORDER.

Keats, P. P., 167 Mary Street, Balsall Heath, Birming-

Partnership Dissolved.

Lewis, W. J., and Page, F. C., 3 Hinckley Road, Leicester, pharmacists, under the style of Lewis &

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Geigy Colour Co., Ltd. (P.C.)—Capital, 20,000l. Objects: To acquire and deal with the products of, and act as agents for, J. R. Geigy, S.A., of Basle, Switzerland, and to carry on the business of manufacturers of and dealers in colours, dyestuffs, pigments, paints, oils, bleaches, drugs, and chemical products, etc. The first directors are: R. Geigy, C. E. Koechlin, and H. P. Addleshaw. R.O.: 35-7 Dickinson Street, Manchester.

SMITHS (HAMPTON), LTD. (170,184) (P.C.).—Capital, 50,0007. Objects: To carry on the business of soap and candle makers, seed crushers, margarine makers, manufacturers, refiners, and preparers of and dealers in oil seeds, oil, fat, soap, candles, tallow, margarine, glycerin, cattle food, oleaginous and saponaceous substances, pharmaceutical, manufacturing, and general chemists and druggists, etc. R.O.: 1 Queen Victoria Street, London, E.C.

INTERNATIONAL YEAST Co., LTD. (P.C.)—Capital, 100,000l. Objects: To carry on the business of yeast manufacturers and merchants, distillers, rectifiers, manufacturers, importers, and exporters of and dealers in yeast products, malt, malt extracts, alcohol, vinegar, acetic acid, glucose, starch, gelatin, flavouring essences, etc. The first directors are: A. A. Watt, S. C. Bayne, W. Bruce, and W. H. Rattenbury (secretary). R.O.: 132 Goswell Road, London, E.C.

Budnip, Ltd. (P.C.).—Capital, 2,5001. Objects: To take over the business of a manufacturing chemist and druggist carried on by J. A. Buckley at 89 Greengate Street, Oldham, as "Budnip." The first directors are: J. Lees, 110 Lees Road, Oldham; J. C. Williamson, 40 Smith Street, Oldham; J. A. Buckley, 89 Greengate Street, Oldham; F. Davies, 117 Huddersfield Road, Oldham; and G. M. Garfitt, 34 Union Street. R.O.: 89 Greengate Street, Oldham.

WILLS & Co. (LEITH), LTD. (P.C.).—Capital, 5,0001. Objects: To acquire the business of manufacturers of marine glues, bitumen enamels, solutions, varnishes, and allied products, and tenacity composition flooring carried on at 54-58 Bangor Road, Leith, as "Wills & Co.," to acquire from W. G. Walker & Sons, asphalters, etc., 44 Fredericks Street, Edinburgh, the sole right to manufacture and sell "Wills' Prize Medal Marine Glues and Varnishes," etc. R.O.: 58 Bangor Road, Leith.

Brown & Forth, Ltd. (P.C.)—Capital, 60,0001. Objects: To acquire, by licence of the Board of Trade, the undertaking of Brown & Forth, the books and documents of which have been liable to inspection under Section 2 (2) of the Trading with the Enemy Act. The business is described in the memorandum of association as that of a manufacturer, importer, and exporter of and dealer in chemicals, dyestuffs, and drysalteries carried on by John Brown, in Manchester and Farringdon Street, London, and elsewhere. R.O.: 10 Dolefield, Manchester.

AINSLIE WALKER LABORATORIES, LTD. (P.C.)—Capital, 6,000%. Objects: To adopt an agreement with J T. A. Walker and to carry on the business of research and manufacturing chemists, importers and manufacturers of pharmaceutical, medicinal, chemical, horticultural, industrial and other preparations, compounds, oils and drugs, etc. The first directors are: J. T. A. Walker, 19 Campden Hill Court, Kensington, W.; L. G. Lane, Barnmead Road, Beckenham; H. Becher, 17 Lancaster Park, Richmond; W. Weston, 131 Bishops Mansions, Bishops Park, S.W. R.O.: 14 Bride Lane, London, E.C. 4.

Major & Co., Ltd.—With a view to paying off existing loans and providing for extensions and further working capital, the directors of Major & Co., Ltd., refiners and distillers of coal-tar and petroleum products and proprietors and manufacturers of "Solignum," are making an issue of 1,000,000 8½ per cent. cumulative preference shares and 60,000 ordinary shares of 11. each.

Cerebos, Ltd.—The directors of Cerebos announce they have acquired the Middlewich Salt Company's business in Cheshire for 30,000l. A new factory has also been purchased and equipped in Paris at a cost of 13,000l., while premises have been secured in Toronto. For the purpose of providing for these extensions it is proposed to create and issue 50,000 ll. shares. The present capital is 250,000l. in 1l. shares, all of which have been issued and are fully paid.

Deeds of Arrangement.

Beck, Henry, trading as the Phœnix Drug Stores, 168 Green Street, Victoria Park, London, E., Drúg-store Proprietor.—Trustee, P. S. Booth, 31 Kimberley House, Holborn Viaduct, London, E.C., accountant. Dated, August 31; filed, September 7. Liabilities, 203l.; estimated net assets, 100l. Among the creditors are Robert Blackie, 8l.; British Drug Houses, Ltd., 20l.; William Browning & Co., Ltd., 7l.; A. & E. Carreras, Ltd., 7l.; D. & W. Gibbs, Ltd., 14l.; Greenwich Lemonade Co., 6l.; C. J. Hewlett & Son, Ltd., 10l.; Thos. Kerfoot & Co., Ltd., 6l.; Orela, Ltd., 5l.; Royle & Co., 8l.; Tozana Perfumery Co., Ltd., 4l.; F. W. Hampshire & Co., Ltd., 12l.; Red Band Manufacturing Co., 6l.; Thos. Guest & Co., Ltd., 6l.

Co., Ltd., 6l.

Harrison, Joseph Alfred, 36 Robin Lane, Pudsey, Herbalist.—Trustee, P. S. Booth, 2 Bixteth Street, Liverpool, accountant. Dated, September 2; filed, September 9. Liabilities, 667l.; estimated net assets, 300l. Among the creditors are E. C. De Witt & Co., Ltd., 9l.; May, Roberts & Co., Ltd., 49l.; Wigglesworth & Co., 6l.; Smith & Nephew, 9l.; Goodall, Backhouse & Co., 55l.; Hirst, Brooke & Hirst, Ltd., 44l.; Alf. Harrison & Sons, 9l.; W. B. Cartwright, Ltd., 26l.; Ayrton, Saunders & Co., Ltd., 15l.; Hodgson & Simpson, Ltd., 7l.; Raimes & Co., 19l.

Administration of Health Insurance.

Part IV. of the first annual report of the Ministry of Health deals with the administration of National Health Insurance from 1917 to March 31, 1920. It is a book of 130 pages, of which eighty-seven are devoted to England and the rest to the Welsh Board of Health. The report does not, however, deal with the administration of sanatorium and medical benefit in England, although these are part of the report on the Welsh Board of Health. In connection with the last-named body it is stated that the arrangements for the pricing of prescriptions at Cardiff have been continued, and the whole of the work for the Welsh Insurance Committees is now carried out by the Central Pricing Establishment. The extra cost entailed under the revised arrangements for pricing was met by a contribution towards the funds of the Insurance Committees. The Pricing Establishment has, in addition to the monthly work of pricing, reassessed the drug prices on the basis of the tariff in use before 1916. It has also undertaken with success certain preliminary investigation work on behalf of Panel Committees. The sum paid in respect of medical and sanatorium benefits and expenses of administration of Insurance Committees during the year ended December 31, 1919, amounted to 424,493/. 4s. 3d. A statement showing the distribution between Insurance Committee areas of the General Medical Benefit Fund (out of which doctors and chemists are paid) for the two periods of settlement ended December 31, 1918, is given in an appendix. The number of persons supplying drugs or appliances on Aprii 1, 1920, was 651. An appendix shows the cost of medicines and appliances as follows:

* ,		Prescrip- tions	Total Cost in Pence	Cost per Prescription
1917	 	1,459,147	9,298,739	6.37d.
1918	 	1,663,955	12,886,337	7·74d.
1919	 	1,635,936	14.125.250	8·63d.

The number of insured persons on doctors' lists was 490,425 in 1919.

Associations' Winter Session.

Bradford.—The first meeting of the present session of the Bradford Pharmacists' Association was held on September 9 at the Central Café, Mr. F. W. Appleyard occupying the chair in the absence of the President (Mr. F. E. Burdett) through illness. A vote of condolence was passed with the relatives of the late Mr. Arthur Robinson, Ph.C., Baildon. Mr. J. P. Gilmour, editor of "The Pharmaceutical Journal," gave an address entitled:

IS PHARMACY PLAYED OUT?

It is necessary, he said, in comparing the present with the past, to bear in mind that memory plays tricks, and there is a natural tendency to over-praise the past at the expense of the present. If they were to arrive at any definite answer to the question as to whether pharmacy is played out they must, as far as possible, eliminate the personal equation. There was no use in comparing pharmacy of to-day with that of any comparatively recent time; they must take some considerable period back. He would take, say, fifty years. To begin with apprenticeship, recollection of their own experience of these days and, for those who were not old enough to remember, reference to others' experiences, showed that apprentices to-day were immeasurably better off. The same applied in the case of adult assistants. The old living-in system was practically done away with. That system in many cases involved an agreement with the religious views of the proprietor. Mr. Gilmour gave some striking examples of the miserable salaries offered to assistants and ligament. offered to assistants and dispensers in the late 'sixties, and even in the 'eighties, and compared these with the proposals of the Drug Union of to-day. Coming to the case of the employer, fifty years ago it was easy to start business on a capital of 100l. to 150l., and some wholesale houses would a capital of 100l. to 150l., and some wholesale houses would give facilities for starting on a bigger scale for a consideration. A reasonably high average income of a business in the early times was 200l. To-day, even allowing for the inflation of currency, he maintained that if a business yields less than 500l. average the master would be little better off than his assistant. This, he suggested, is a problem which will have to be faced in the not far distant future. There has been a perennial discussion throughout the years as to the powers of the Pharma. throughout the years as to the powers of the Pharmaceutical Society in regard to trade matters. The test case is to be heard immediately after the Long Vacation, and, until the result of that is known, it is impossible to say what powers the Society really has in this regard. In the matter of professional status T. W. Gissing, of Wakefield, had declared that the cause of the advent of mixed businesses was the inadequate income from the sale of drugs. The question arose, Would legal withdrawal of dispensing from doctors obviate this trouble and return to the chemist the possibility of maintaining business on the professional side? Joseph Ince, in The Chemist And Druggist in 1868, said: "We have no sympathy with jeremiads about status—were the Amended Act reposing in the Dead Sea pharmacists of the present generation have made a position of their own, which the world will not hesitate to endorse, and which it is equally powerless to refuse."

Mr. Gilmour said he did not altogether agree with Ince. He (the speaker) had no doubt whatever that the status of the chemist to-day, both with the public and with Government Departments, was very much higher than in the earlier days. There had been repeated demonstrations of it, and not the least was the Insurance Act.
The Pharmaceutical Society were now consulted by
Government Departments—though he did not say frequently enough—when formerly they would have been ignored, and the latest striking example of this has been the Dangerous Drugs Bill. On the vexed question of proprietaries, Mr. Gilmour said that when he entered the trade, in 1876, the business in proprietaries was a mere fraction of the turnover. Cutting had commenced even then, but not on a large scale. To day, instead of a dozen or so proprietaries, there are hundreds, nay, thousands, and they are still increasing. On the matter of profit Mr. Gilmour maintained that the P.A.T.A. has enormously ameliorated the situation. The question of proprietaries will be raised in an acute form by reason of the Bill now

before Parliament, and it might affect chemists rather seriously. For instance, if an annual registration-fee is charged for each article it will be very serious for the man who has to stock a great many of these proprietaries. Representations will have to be made to secure fair play in that respect. There are many perfectly legitimate proprietaries, as well as some which are unquestionably discreditable and undesirable. Speaking of local retail price lists, Mr. Gilmour remarked that the Leeds Association was one of the first to adopt a list of its own. Glasgow in the 'seventies they had a local list, but had great difficulty in keeping to the prices. He found there is really remarkably little difference between the prices of 1868 and 1914, but, though there was no great advance in prices in that period, the margin of profit for the chemist has become better. The pharmacist of the old days had to live very sparingly, but the pharmacist of to day is very much more prosperous, even though, since the war, he is tied down by the Profiteering Act. In the matter of trade organisation he thought there is ample evidence of progress. In 1869, 11,638 persons were registered with the Pharmaceutical Society. In December last year there were 16,635. The ratio to population in 1863 was one chemist to 2,240 people. The ratio to-day is less, only one to about 3,000 people. The actual membership of the Pharmaceutical Society in 1868 was 2,673. To-day it is 10,000, a percentage of the whole craft of 60, as against 23 per cent. formerly. In 1868 there were associations of chamiets in about twenty towns and of the second of the secon associations of chemists in about twenty towns and a few associations of chemists in about twenty towns and a few assistants' societies. To-day there are 195 associations in England, 25 in Scotland, and 20 in Wales, making a total of 240, and also seven federations. In point of organisation, then, pharmacy is certainly not played out. As to the future, he hesitated to do anything in the way of prophecy, but he was positive that it is not wise to take the depressing view of pharmacy which some men seem to do. The professional side is, he held, undoubtedly developing in recent years. In hospitals, in public institutions generally, where formerly unqualified dispensers were employed, chemists are now largely engaged. If the national health service scheme of the Government does come into operation—though he did not expect it for quite a long time—he thought it highly probable that places will be found for chemists. Whether that and any other schemes to come in the future will extinguish the chemist as an individual trader he would not like to If individual trading is abolished and some form of collective trading is brought into existence he was convinced that, as long as drugs are needed, there will be room for the chemist. If a Labour Government carried out trade union principles the chemist would have to do his own job and no other; he would be compelled to confine himself to his professional functions. Despite the difficulties of holding the faith sometimes, Mr. Gilmour said he lived in faith of the upliftment of pharmacy. and he did believe that chemists are going from worse to better. (Applause.) The chairman said the meeting had listened with great benefit and profit to Mr. Gilmour, who took a rosy view of things for which he (the chairman) was glad. Mr. R. T. Silson, in moving a vote of thanks to Mr. Gilmour, said that the force of education is so strong now within the community of chemists that they felt sure that their hope of a rising generation with more advantages and knowledge than themselves will be realised. Mr. W. Sutcliffe, in seconding, said the meeting had had an intellectual treat from a pharmacist who had been through the grind, and has now reached the high ideal of being able to write on pharmacy for chemists. Mr. Sutcliffe also expressed his appreciation of the improvement made in the "Journal" since Mr. Gilmour took charge. Mr. Gilmour briefly responded.

Southport.—The Southport Pharmacists' Association inaugurated the winter session with a dinner at the Queen's Hotel on September 14. Among the guests who accepted the invitations of the chairman (Mr. Harold Barton) and council were Professor Buchanan (University of Liverpool), Dr. Anderson (the local doyen of the medical profession), Messrs. H. Humphreys Jones, L. Moreton Parry, D. H. Evans, J. L. Hirst, J. H. Robinson, W. J. Williams, A. S. Furness (Liverpool), Harold

Wyatt (Bootle), F. W. Bates (Manchester), F. Hindle (Preston), and T. Harrison Winstanley (Wigan). Dr. Cronin Lowe spoke on Acquired Immunity, and Dr. Anderson proposed a vote of thanks for the characteristic hospitality of the Association.

South Wales and Monmouthshire Federation,-The South Wales and Monmouthshire Federation met at the Cameron Hotel, Swansea, on September 9, the executive horting a preliminary meeting in the afternoon. The President, Mr. H. M. Lloyd (Merthyr Tydfil), occupied the chair on both occasions, and in the interval between the two meetings the members visited the Gower Peninsula. The executive expressed sympathy with the relatives of the late Mr. W. T. Sivertsen and those of the late Mr. R. P. Rees. It was decided to defer the appointment of a new secretary, Mr. J. S. Gilbert (Swansea) being asked to act pro tem. Arrangements were made for the prize-giving ceremony of the Welsh College of Pharmacy, to be held at Cardiff on October 21. The question of a minimum wage was fully October 21. The question of a minimum wage was fully discussed, the feeling expressed being that it was wiser to wait until an Industrial Council for retail pharmacy is formed. The question of profit on certain proprietary articles was raised, and it was resolved to communicate with other Federations on the subject. Attention was called to errors in the "National Minimum Retail Price Called to errors in the Matchian American at List." It was decided to hold the next meeting at Brecon in November. The President gave notice of motion on the following matter: "That the affiliated Associations be asked to increase the amount of their subscription, in order to place the Federation on a sound foundation." Mr. H. O. Lloyd addressed the evening meeting, giving a short account of the business of the Council of the Pharmaceutical Society during the past session.

Spanish Dangerous Drugs

THE Spanish law regulating the importation and sale of dangerous drugs resembles to some extent the recent British enactment; on the other hand, it differs from the British Act in that it has a far wider scope; and, in fact, the general character of some of the Spanish provisions renders it a far more elastic measure, making it applicable to a very wide range of substances, not by mentioning these specifically, but by referring to whole

categories of drugs.

The first articles of this law deal with opium and its The first articles of this law deal with opinin and its derivatives. Opium, raw and manufactured, and all extracts of poppies or of opium containing one or more of its alkaloids, as well as all preparations consisting essentially of the same; further, all derivatives of opium, such as morphine, codeine, diacetylmorphine, heroin, peronine, and any salt of these, may only be introduced into Spain provided the amount imported is over duced into Spain provided the amount imported is over 3 kilograms, in the case of opium, and exceeds 500 grams in the case of opium alkaloids, mixtures of the latter, or their salts. The importation into Spain of these substances is only permitted through the Custom Houses of Irun, Santander, Gijou, Corunna, Vigo, Valencia de Alcantara, Cadiz, Malaga, Cartagena, Alicante, Valencia, Barcelona, Port Bou, Sevilla, San Sebastian, Huelva, Bilbao, and Palma.

The importation into Spain of coca, cocaine, antipyrin, and of substances having a similar action is only permitted through the above-mentioned Custom Houses, the minimum quantity being 3 kilograms for coca and 500 grams for the other two substances; and, on the recommendation of the pharmaceutical inspector, this minimum amount of 500 grams may be enforced for the importa-tion of all pharmaceutical products. The substances mentioned above may only be delivered to the representatives of the pharmaceutical organisations, or to persons duly known and registered as carrying on business for the supply of pharmacies, laboratories for the manufacture of pharmaceutical specialties, or pharmaceutical co-operative organisations. Other persons requiring any of

these drugs for manufacturing purposes must obtain them through an agent, duly authorised to accept such consignments by the Inspectorate-General of Health. Dealers holding stocks of these substances are required to enter in a register the name of the persons to whom any of these have been sold, stating the amount, and any of these have been soid, stating the amount, and indicating in the entry whether the amounts supplied were intended for medicinal uses or for manufacturing purposes. The importation and traffic in opium for smoking is prohibited.

The retail sale of medicinal preparations containing opium, and of preparations in any form (extracts, fluid extracts, pastilles, pills, cachets, tinctures, injections, potions, etc.) containing alkaloids, glucosides, or principles acknowledged to possess a narcotic, anæsthetic, febrifuge, anticonceptional, or abortefacient effect, is restricted to pharmacists keeping open shop. None of these substances may be supplied by a pharmacist except upon production of a medical man's prescription, written and signed by the latter, and this prescription must be renewed by the doctor for each repetition. Special vigilance is to be exercised in supervising druggists, perfumers, and other establishments in which, owing to the danger to the public health, any medicinal preparations containing one or more of these toxic drugs are sold, in order to prevent them from presecuting the illegal sale of such preparations. The execution of this supervision is entrusted to the health inspectors and to the sub-delegates of medicine and pharmacy, who are empowered to call in the assistance of the police in the fulfilment of this duty, and to report to the judicial authorities all cases of illegal trafficking in these substances. Packets or boxes of pills, pastilles, tablets, cachets, powders, ampoules for injections, potions, and all liquid preparations for internal use containing any substance possessing a narcotic anæsthetic, febrifuge, anticonceptional, or abortefacient action, must bear on the outside a statement to the effect that the prolonged use of this remedy may prove injurious, and can only be supplied on a prescription. No toxic substance of this description may be sent through the post unless it is addressed to the owner or manager of a pharmacy. Interesting is the final provision, according to which the retail sale of ether is limited to pharmacies, by which it may be supplied without formality in urgent cases; however, the pharmacist is empowered to require a prescription when the frequency with which ether is being purchased leads him to assume that it is being used for illegitimate purposes.

A Royal decree requires that the utmost vigilance shall be exercised by the authorities to secure the full application of all these provisions, mentioning especially that none of these substances shall be dispensed without a prescription, whether supplied in the form of a speciality or in any other shape, and requiring the renewal of the prescription for every repeated sale. This admonition has recently been again repeated and circularised among the governors of the provinces, requiring its publication in all the official bulletins, in order that the provisions of the new law may be made known to the widest possible

extent among the population.

LOOFAH CULTIVATION IN INDIA.—A correspondent of "The Times Trade Supplement" of September 11 points out that the attention of a number of Indian planters out that the attention of a number of Indian planters has been drawn to the possibilities of the loofah, three or four varieties of which grow wild in India. These in general are poor in quality, and the attacks of insects during the early stages of development result in distortion of the sponges. The loofah is, however, cultivated on an extensive scale in Bengal, where the fruit of two varieties is used for food. It has been found that, while for bath purposes, the long loofah may be regarded as most suitable, there is no commercial purpose for which the Indian loofah is not just as valuable as the Japanese and the Algerian varieties. The shortness is merely relative. The result of this awakened interest has been the planting of some hundreds of acres with loofah, and, although the culture needs care and is somewhat costly, it should show a high return on the outlay.

Practical Notes and Formulas.

The Viceroy's Hair-wash.

The following has been dispensed for several Viceroys of India in the Viceroy's dispensary at Simla. It makes a good preparation for general use :

~				
Sp. rosmar.				žj.
Sp. amm. ar				žj.
Tr. canthar.				žj.
Tr. jaborandi				žiss.
Ol. bergamot.		• • •	• • •	5j.
Sp. vini rect.		• • •		žJ.
		• • • •		miv.
Parolein		•••		$5^{\rm V}$ J·
Aq. rosæ	•••	•••		žiss.
Aq. dest. ad	•••	•••		žviij.
M.S.A.				

U.S P. Formulas.

THE Committee on the United State Pharmacopæia of the Philadelphia College of Pharmacy recommend the following improved formulas for insertion in the next edition of the Pharmacopæia:

Liquor	Cresolis	Compos	situs.
Cresol			grams
Olcic acid			grams
Sodium hyd Water, suffic		-1-100	grams

Dissolve the sodium hydroxide in 100 cc. of water, and in a tared vessel, add the cresol, and stir thoroughly. Now add the solution of sodium hydroxide, stir vigorously until saponification occurs, and finally add sufficient water to make the solution weigh 1,000 grams.

Magma Magnesiæ.

Light magnesium oxide ... 60 grams ... 60 gra Lime-water ...

Add the light magnesium oxide gradually, and with constant stirring to 800 cc. of lime-water contained in a graduated jar of at least double the capacity required for the mixture. Then add enough lime-water to make the product measure 1,000 cc., and shake or stir the mixture vigorously at frequent intervals until it has thickened

Mist. Cretæ. Add 1 cc. of oil of cinnamon to 200 grams of compound chalk-powder (prepared chalk 3, powdered acacia 2, powdered sugar 5); gradually and thoroughly triturate this powder with 400 cc. of cinnamon-water. Transfer the mixture to a graduated bottle, and add sufficient cinnamon-water to make the product measure 1,000 cc.

Suramus Lastagamii

By apas Datata	cc.
Lactucarium	50 grams
Glycerin	250 grams
Sugar	600 grams
Conc. orange-flower water	100 grams
Distilled water, sufficient	0 "
to make	1,000 cc.

Mix the lactucarium with 400 grams of clean sand by thorough trituration. Place the mixture in a percolator and, without packing, pour on sufficient of a mixture of glycerin, orange-flower water, and 300 cc. of distilled water to saturate the powder and leave a stratum above. Close the percolator and macerate the drug for two days. Then percolate slowly, using the remainder of the mixture and afterwards sufficient distilled water to yield 700 cc. of percolate. Dissolve the sugar in this percolate with the aid of the heat of a water-bath, strain if necessary, and finally add sufficient distilled water to make 1,000 cc.

Sgrupus	Benegue.	
Senega No. 20 powder		200 grams
Ammonia solution		20 cc.
Glycerin Sugar		100 cc.
Water, sufficient quantity	to make	750 grams 1.000 cc.

Mix the ammonia and glycerin with 200 cc. of distilled water, moisten the drug with sufficient of this menstruum, and pack it lightly in a percolator. Allow the moist drug to macerate for twenty-four hours, and then percolate into

a receiving vessel graduated to 800 cc., and containing the sugar; use first the remainder of the menstruum, and then sufficient water to make the sugar and percolate measure 800 cc. Reserve this portion and continue the percolation with chloroform water until the drug is exhausted. Evaporate this second percolate to 200 cc., add it to the reserved portion, agitate until the sugar is dissolved, strain the syrup, and add sufficient water to make the product measure 1,000 cc.

The Artificial-silk Industry.

An interesting paper by Mr. L. P. Wilson, dealing with the artificial-silk industry, is given in the "Journal of the Society of Chemical Industry" (Vol. XXXIX., No. 15). From this it appears that the output of artificial silk in Great Britain is about 10 tons daily. The older nitro and cuprammonium processes have been displaced by the English viscose process. The viscose process by the English viscose process. The viscose process differs from its competitors in that the raw material used as the source of cellulose is wood pulp and not cotton, and, during the war, the advantage of this circotton, and, during the war, the advantage of this circumstance was especially emphasised owing to the shortage of the latter fibre. Numerous sources of cellulose have been tested for the production of viscose silk, and many will yield a satisfactory thread, but spruce pulp—of which Norway supplies the greater part—is the most usual starting material. The almost unlimited resources of wood in Canada and other northern countries ensure a sufficient supply for the requirements of the industry for an indefinite period, but for the processes which require cotton as a basis—viz., the nitro, cuprammonium, and acetate processes—the position for a large production is much less secure. In common with all other materials, the price of pulp has increased very all other materials, the price of pulp has increased very greatly, so that pulp which in 1914 cost £12 per ton is now marketed at £100, and the prices of all other chemicals have altered in the same direction, but it is proved processes and machinery, English viscose silk is now put on the market at a considerably lower price than that produced in any other country, and in the case of some sizes is even cheaper than the corresponding count of Egyptian cotton.

For the production of a satisfactory spinning solution and product it is essential that the pulp should be free and product it is essential that the pulp should be tree from lignin and colouring matter, and for this reason a bleached sulphite pulp is the most desirable. The wood pulp is converted into alkali-cellulose by steeping in strong caustic soda, the excess being pressed out and the wet sheets finely ground and then oxidised. At this stage very careful control is necessary, particularly with regard to the amount of oxidising catalyst present in the callulose. Treatment with carbon bisulphide vapour alkali-cellulose. Treatment with carbon bisulphide vapour converts the alkali-cellulose into xanthate, which is then dissolved in dilute soda, forming "viscose." This solution is projected through fine apertures in platinum into the recipional bath. jets into the spinning-bath. Spinning-baths of very varied composition have been employed to produce the thread, and, in the case of viscose silk, very different results can be obtained by the choice of the proper coagulating medium; the composition of this—together with the degree of xanthation—enables the manufacturer to produce fibres with results. jets into the spinning-bath. turer to produce fibres with varying shapes of cross section, and thus, of different lustre, covering power, dyeing affinity, etc., according to the requirements of the fabrics which are to be made from them. In this respect viscose silk is unique, for its fibres may be either smooth and round, or irregular and serrated in cross-sectional outline, or with any intermediate variation; nitro, cuprammonium, and acetate fibres do not possess this property, but have a generally smooth outline, with, consequently less lustre and according reviews.

sequently, less lustre and covering power.

In the latter part of the war, owing to the fact that the most suitable raw materials were often unobtainable. viscose silk did not maintain its earlier standards, but these have now been regained and in some respects surpassed; at the same time the production, which was necessarily reduced, has in this country again reached

and passed its earlier figures.

Colour in Selling Perfumes.

THE duty on perfumed spirits has been increased in the The duty on perfumed spirits has been increased in the 1920 Budget to 6l. in casks or 6l. 1s. in bottles per liquid gallon for the foreign product, while for imperial spirits the preferential duty is 5l. 16s. and 5l. 17s. respectively. It is safe to assume, therefore, that if cheap perfumes survived the 1919 Budget the new duty will prove their death-blow. There is a danger, too, that with the passing of the sixpenny and shilling bottles of scent, the chemist may find a decrease in what ought to be a valuable side-line. Large departmental and drapery stores already seemed to have taken over a large part of what every pharmacist with modern ideas should consider an intimate part of the business of a chemist and druggist-the sale of perfumery. If the scents sold in these establishments appear to smell sweeter than those supplied by the chemist, the reto smell sweeter than those supplied by the chemist, the result is probably due to the fact that the surroundings make the appeal, for the "atmosphere" generally aimed at is that of quality. "A rose by any other name will smell as sweet," says the platitude. But if the rose resembles, say, a dandelion, explanation is needed to convince one that the perfume is really there. It might be argued that one sniff would convince the sceptic. That is true, but, paradoxically enough, an intending purchaser of perfume is seldom guided by the olfactory organ. If a sale could be analysed it might be found that 50 per cent. was a preexisting intention, 45 per cent. was due to appearance of the bottle, label, and so on, while the remaining 5 per cent. was influenced by a familiar, descriptive name. The price question has been omitted, for it seems to have been amply exemplified, during the war at any rate, that been amply exemplified, during the war at any rate, that price is an illusion, though there are signs that this will not always be so. To sell a rose perfume, therefore, a pharmacist must offer a rose garden, not for the nose, but for the eye. Colour is the keystone of attraction. The eye indicates beforehand to the senses of smell and taste the nature of the sensation which is to be encountered. Apart from the close association of eye and nose there is another reason why colour schemes are at present partianother reason why colour schemes are at present particularly suitable as an aid to perfume selling. Colour is fashionable. One might say it is the "rage." Futurist, cubist, and jazz colours are found to be attractive. There is no need to consider why. Theatres achieve success in proportion to the amount of colour in the piece. If there is any idea in the "story" it seems to be that a rainbowed display provides a stimulus to the whole emotional being, for stripped of its coloured setting the average show. display provides a stimulus to the whole emotional being, for stripped of its coloured setting the average show would be disappointing, to say the least. Colour as a means of attraction is as old as Nature herself, although the theory that is now accepted—namely, that each colour produces a corresponding emotion—may be considered new. There seems to be nothing to discredit an amended version that the strength of the colour property utilised may furof this axiom—that colour properly utilised may furnish an excellent incentive to the purchase of perfumery. At any rate, an experiment or two would cost but little, and the reward may be well worth while. For perfumes are in demand all the year round, although many pharmacists display them only at the festive season when people are in a quandary in regard to suitable presents for friends. Every pharmacist has his own ideas on window dressing. Here are a few suggestions on colouring

Red with blue, Red with green. Scarlet with blue. Orange-red with blue. Orange with blue. Orange with blue. Yellow with purple or violet. Violet with bluish-green. Violet with yellowish-green. Greenish-yellow with red, Greenish-blue with violet.

Black or white may be used as a third "colour" with these—for example, on the floor or back of the windows or cases. Various shades may suggest themselves, but "strong" colours are generally considered the most attractive. With regard to the material, silk, though expensive, is the most suitable. It is said that in picture plays only genuine furniture and the costliest fabrics are admitted, as anything else appears unreal to the critical camera. This should be noted.

Personalities.

Mr. P. R. Hill, Ph.C., High Street, Gorleston, has been appointed a member of the Yarmouth war pensions committee.

COUNCILLOR C. GERRING, chemist and druggist, New Romney, has been appointed a member of the local Profiteering Committee.

Profiteering Committee.

Mr. W. Woolley, J.P. (Cupal, Ltd., Phœnix Mill, Blackburn), successfully underwent an operation in a Leeds nursing home on September 9. Mr. Woolley has recently returned from a trip to the Far East.

CAPTAIN H. I. LLOYD, M.C., eldest son of Mr. Isaac T. Lloyd, chemist and druggist, King's Road, Chelsea, London, S.W., has been released by the Arab tribesmen by whom he was recently captured (C. & D., September 4, p. 77)

MR. SAMUEL W. FAIRCHILD (Fairchild Bros. & Foster, New York and Holborn Viaduct, London, E.C. 1) has received from the King of Belgium the Cross of Officer of Leopold II., in recognition of his services in the organisation of Belgian relief during the war. Earlier in the present year, Mr. Fairchild was made a Chevalier of the French Legion of Honour (C. & D., I., 1920, p. 343).

MR. AND MRS. GEORGE WHITFIELD, Scarborough, who, as already announced, have sailed for Montreal, accompanied by their only daughter, expect to arrive there on September 20. It is their intention to visit Toronto, Niagara Falis, Detroit, Chicago, St. Louis, Washington, and New York. Their arrival at Liverpool by the s.s. Metagama is fixed for November 3. It is expected that the impressions received in Canada and the United States by Mr. Whitfield and the other pharmacists referred to in the C. & D. of September 11 (p. 58) will result in some bright ideas for the British Pharmaceutical Conference of 1921.

A PHOTOORAPH was taken on board the White Star liner s.s. Canada on September 10, and shows Mr. George Whitfield and Mrs. and Miss Whitfield, Scarborough; Mr. E. T. Rich, Swansea; Mr. Norman Heath and Mrs. Heath, Liverpool; Sir Thomas and Lady Robinson, Dublin; Mr. F. D. Spencer and Mrs. Spencer,



PARTY OF BRITISH CHEMISTS ON THEIR WAY TO THE REXALL CONVENTION.

Stratford-on-Avon; Mr. W. H. Lester and Mrs. Lester, Nuneaton; Mr. Jeffrey Poole and Mr. J. W. Atkinson, Birmingham; Mr. Charley Dean and Mrs. Dean, Bury; Mr. Henry Holt and Mrs. Holt, Rochdale; Mr. G. R. Williamson, Foleshill; Mr. Leigh B. Liggett and Mr. J. W. Griffith, Liverpool. Others shown in the photograph include Mr. W. C. Church and Mr. M. L. Daniels, of the United Drug Company. Liverpool.

Births.

Cullingham.—At 6 Linden Grove, London, S.E. 15, on September 11, the wife of Charles F. Cullingham (James Heppell & Co., chemists, 164 Piccadilly, W. 1), of a daughter.

Garner.—At Blundellsands Nursing Home, Liverpool, on September 9, the wife of J. Douglas Garner, M.P.S., of a son.

Johns.—On September 14, Grace Elizabeth Johns, M.P.S., wife of G. D. Johns, M.P.S., The Bridge Pharmacy, Melksham, of a son.

Marriages.

ALLEN—Jones.—At St. Mary Magdalene, Wandsworth Common, London, S.W., on September 9, by the Very Rev. Canon Theodore Wood. William Herbert Allen, Ph.C., second son of the late Mr. Charles B. Allen, Ph.C., Kilburn, N.W., to Winifred May, only daughter of Mr. John S. Jones, Barry, South Wales.

CLARK—Fox.—At the Parish Church, Upper Deal, on September 8, Arthur Henry Clarke, chemist and druggist, second son of Mr. J. H. Clarke, 83 West Street, Boston, to Miss Hilda Fox, Ravenscourt Road, Boston.

HOLTON—MILLER. — At Fakenham Congregational Church, on September 10, John Charles Holton, M.P.S., Bridge Street, to Ethel Miller (late quartermaster, Fakenham V.A.D. Hospital), daughter of Mr. W. O. Miller, Beeleigh.

Silver Wedding. (From The Chemist and Druggist, II., 1895, p. 489.)

Turner—Patterson.—At St. Ann's Church, Dublin, on September 18 [1895], by the Rev. A. E. Wynne, M.A., John Tyrie Turner, M.P.S.I., 52 Upper Sackville Street, to Isabella, daughter of Mr. William Patterson, 35 Prince William Terrace. [Present address: The Pharmacy, Carrick-on-Suir.]

Deaths.

ARKLE.—At his residence, Northfield, Lancaster, on September 12, Mr. William Arkle, chemist and druggist, aged seventy-seven. Mr. Arkle was the son of a captain in the merchant service, and while on a visit to his father's ship at the age of ten had a narrow escape from drowning. He served his apprenticeship to the late Mr. E. Jackson, Lancaster, and gained further experience in London, Manchester, and Leeds, passing the Modified examination in 1869. Forty-seven years ago he took over the business of the late Mr. Joseph Albright, 13 Penny Street, which he continued to conduct personally till very recently. Mr. Arkle has been prominently connected with the Lancaster and District Pharmacists' Association, having been President from 1908 to 1911, and a Vice-President from 1911 to 1913. He remained a member of the committee until 1917, when failing health necessitated a less active life. Mr. Arkle was a churchwarden at Christ Church for over thirty years, and was also a member of the Lancaster school board during the whole period of its existence. He was predeceased by his wife a few months ago, and is survived by a son and two daughters. The funeral service was held at Christ Church on September 15. The service was choral. In addition to his brother (Mr. C. A. Arkle, chemist and druggist, Preston) and other members of the family, there were present several representatives of local bodies, including the following members of the Lancaster and District Pharmacists' Association: Mr. H. Troughton (President), Mr. J. B. Shattock (secretary), Mr. A. Bate (treasurer), Mr. J. Vince (ex-President), Mr. R. S. Angus.

Babtie.—At Knocke-sur-Mer, Belgium, on Septem-BABTIE.—At Knocke-sur-Mer, Belgium, on September 11, suddenly, Lieutenant-General Sir William Babtie, V.C., K.C.M.G., K.C.B., M.B., Ockford House, Godalming, eldest son of the late Mr. John Babtie, J.P., Ph.C., Dumbarton, aged sixty-one. Sir William Babtie was educated at Glasgow University, where he took the degree of Bachelon of Modeins in 1990. Entering of Bachelor of Medicine in 1880. Entering the Army Medical Service in the following year, he served as senior medical officer during the international occupation of Crete. In the South African campaign he was present at all the actions for the relief of Ladysmith and the subsequent operations in Natal and the Eastern Transvaal. The deed which gained Sir William (then Major) Babtie the V.C. occurred at Colenso in 1898. With great gallantry he rode out under heavy fire to attend to our wounded lying in an advanced donga; and, later in the day, he went out again with Captain Congreve to bring in Lieutenant Roberts, son of Lord Roberts, who had been mortally wounded in an attempt to save the guns. Promotion to lieutenant-colonel followed, and for the next few years Colonel Babtie held responsible posts in the Medical Services at home and in India. He married in 1903. Sir William reached the rank of major-general in 1911, was created a K.C.M.G. in 1916, and retired in 1919 with the honorary rank of lieutenant-general. During the recent war he served as Principal Director of Medical Services in the Mediterranean, Salonika, and Egypt, and as Director and Inspector of Medical Services at the War Office. It may be remembered that the name of Sir William Babtie came into prominence during the inquiry into the campaign in Mesopotamia in 1916, for the medical arrangements of which he was responsible. The findings of the Commission made no reflection upon him, and his services were not lost to the Army. H received the additional distinction of K.C.B. last year.

Brown.—At 58B Crawford Street, London, W. 1, on September 2, Mr. Percy Brown, chemist and druggist, aged twenty-seven.

Davies.—At Beckington, on August 31, Mr. David Davies, Ph.C., aged eighty-two. Mr. Davies passed the Major examination in 1859.

Ross.—At Bervie, on September 9, Mr. Andrew Leighton Ross, chemist and druggist, aged sixty-nine. Mr. Ross was for many years the proprietor of the pharmacy at 21 High Street, Montrose, which was established by the late Mr. John Reid in 1848. He served his apprenticeship to Mr. Reid, and enlarged his experience in London and elsewhere. On his retirement in 1912 he disposed of the business to Mr. J. W. Plenderleith. Mr. Ross, who was unmarried, was an active and much-esteemed Freemason.

Salmon.—At Kifri, on August 29, Captain G. H. Salmon, son of Mr. E. F. Salmon, Ph.C., 30 Western Road, Hove, aged twenty-six. Deep sympathy will be felt for Mr. Salmon in the loss of his son, whose promising career has been suddenly ended by the treachery of enemies. Captain Salmon was gazetted to the Devon Regiment (6th Battalion) in 1915, after having broken off his studies at Oxford in order to undergo military training. He saw active service in the Mesopotamian campaign of 1916, and in consequence of his experiences was invalided to India. Returning to Baghdad, he was eventually transferred to the Civil Administration, and became assistant political officer. A letter received by his father from the India Office states that Captain Salmon was murdered after capture by tribesmen. The letter continues: "The Civil Commissioner reports that the circumstances under which he was captured were entirely creditable to him, and that by his death the Civil Administration loses the services of a loyal and courageous officer. His body was recovered and buried in the presence of his widow on August 30."

Mr. Frank Robert Squire, chemist and druggist, San Remo, Italy, who died on December 20 last, left estate in the United Kingdom of the gross value of 1,857l. 0s. 3d., with net personalty 1,531l. 2s. 9d. Probate of his will has been granted to his widow Mrs. Louisa Squire, and his daughter Miss May Squire, both of Fullerby, Lincs.

Trade Notes.

RAZORKENA.—Mr. E. Lloyd, 63 Wednesbury Road, Walsall, advertises Razorkena in this issue. This is a razor sharpener, which is sold in 3d. packets.

RALTY HOME DYES.—Ecroyd & Co., Mossfield Road, Farnworth, Bolton, call attention to the Ralty system of home dyeing, and invite applications for samples and

HUNT'S BOTTLE CAPS.—These well-known bottle caps are still the favourite with dispensing chemists. Mansell, Hunt, Catty & Co., Ltd., supply the caps through all wholesale houses, or direct.

IGLODINE advertising is being extended in the Press and by means of posters. The posters giving the uses of Iglodine antiseptic are appearing on the hoardings of the chief cities in the provinces.

ELECTRIC POCKET-LAMPS.—Archibald J. Wright, Ltd., manufacturing electricians, 61 Eden Grove, Holloway, London, N. 7, have now ready their 1920 price-list, to which several new items have been added.

DR. ROOKE'S SOLAR ELIXIR.—The 1s. 3d. size of this proprietary medicine has been withdrawn, and also the 5s. size of Dr. Rooke's Oriental Pills. Stocks can be exchanged direct from Dr. Chas. Rooke, Ltd., Leeds.

Screw Caps.—Illustrations of the screw caps in tin, aluminium, and zinc, made by the Roberts' Capsule Stopper Co., Ltd., 63 Canterbury Road, London, S.E. 15, form part of the company's advertisement in this issue.

DENTIFRICE LACOSTE is now sent out with a 6d. medicine-duty stamp, but the price to the retailer has not been increased. An announcement to this effect is made by Lacoste et Cie., 123A Borough High Street, London,

BRADFORD TECHNICAL COLLEGE. The new calendar of this College gives particulars of classes for the Major and Qualifying examinations of the Pharmaceutical Society Local assistants should note these of Great Britain. classes, the fees for which are nominal.

VIROLAX, the new laxative food put on the market by Virol, Ltd., 148-166 Old Street, London, E.C. 1, is to be extensively advertised to the public. Chemists are asked to stock Virolax in anticipation of the demand. The terms are given in the announcement of Virol, Ltd., in this issue.

Jewsbury & Brown's Agencies.—The list of whole-sale agents for Jewsbury & Brown, Manchester, was given recently in the C. & D. The sole selling agents for the firm in London, the home counties, South and West of England, are Robert W. Phillips, Ltd., Craven House, Kingsway, London, W.C. 2.

CHEMICAL STOCKS.—Charles Tennant & Co., Ltd., 93 West George Street, Glasgow, announce that they have purchased from the Disposal Board the entire stocks of photographic and laboratory chemicals of the Ministry of Munitions. A list of some chemicals which the company can supply on advantageous terms is given in the advertisement.

SOUTH-WESTERN POLYTECHNIC.—The new prospectus of London, S.W., has been issued this week (2d.), or post free $3\frac{1}{2}d.$). Among the classes are complete courses for the Qualifying examination of the Pharmaceutical Society, the Institute being recognised for both parts of the examination (see C. & D., August 21, p. 88).

TUBUNIC AMPOULE-SYRINGE.—We have had an opportunity this week of examining the Tubunic ampoulesyringe which has been introduced by the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3, for the purpose of securing the administration of hypodermic preparations under the most perfect condi-tion of sterility. The solution is contained in a pure tin collapsible barrel, to which a needle is affixed, protected by an ingenious but simple glass hood. As sent out, the solutions keep indefinitely, and when required for use it is only the work of a minute to prepare the

syringe. A selection of drugs packed in this way is kept in stock, these including digalen, omnopon, morphine, and camphor in oil, but other drugs can be obtained at short notice. Tubunic ampoule-syringes are sent out packed separately in cartons or in boxes of six.

Trade-marks Applied for.
The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registra-tion. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade marks Journal," September 15, 1920.)

Hermastic"; for all goods (1 and 2). By Wailes Dove Bitumastic, Ltd., 5 St. Nicholas Buildings, Newcastle-on-Tyne. 404,471/2. (Associated.)

on-Typne. 404,471/2. (Associated.)
Lumex'; for photographic sundries (1 and 39). By
Lumex, Ltd., 31 Dame Street, Dublin. 404,987/989(Associated.)

(Associated.)

Caravel.''; for goods (1) and for all goods (2, 3, 4, and 48). By Caravel Co., Ltd., 110 Cannon Street, London, E.C. 4. 404,997/998/999; 405,000/001. (Associated.)

Asses-fos''; for all goods (1). By Pickles, Ayland & Co., Ltd., Turn o' the Nook, Wesley Street, Ossett, Yorks.

"Asbes-foo"; for all goods (1). By Pickles, Ayland & Co., Ltd., Turn o' the Nook, Wesley Street, Ossett, Yorks. 405,463.

"Wodfyx"; for chemicals (1). By Pinchin, Johnson & Co., Ltd., General Buildings, Aldwych, London, W.C. 2. 405,468.

"Dook-O"; for mange and itch veterinary preparations (2). By W. H. Fisher, 205 Leyton High Road, Leyton, Essex. 400,386.

"Ti-Yat"; for all goods (3). By John Bell Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E. 1. 405,617.

"Mustrewitch Balm," with device of witch on broomstick; for a medicine (3). By H. G. Bitters, Inc., 1603 East 53rd Street, Chicago, U.S.A. 405,577.

"Toron"; for goods (47); "Torol" and "Torette," for all goods (48). By Toro Tablet Co., Ltd., 95 Station Street, Birmingham. 400,558/559/571. (Associated.)

"Velvans"; for perfumed powdered soap (43). By H. N. Gilbey, 15 Charlotte Street, Tottenham Court Road, London, W. 1. 403,152.

"Brill-Fix" on label device; for hair-dressings (48). By J. J. Denton, Ltd., 7 Williamson Square, Liverpool. 403,942.

"CRUDOL"; for shampooing powders and liquids (48). By J. E. Ellis, "Batavia," West Park Grove, Roundhay, Leeds. 405,339.

"Prodens"; for perfumery, etc. (48). By Parke's Drug Stores, Ltd., 65 Harmood Street, London, N.W. 1. 405,938.

"Waxolene"; for polishes, etc. (50). By Boots Pure

AXOLENE"; for polishes, etc. (50). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 405,715.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated: S/149. Eythol soap and oint- | C/159. Bristol cocoanut hair-E/169. Essence Cororada Mara-villosa (Spanish) ment S/159. Macky's arbul S/169. Chloram inhalers

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Janet Moore's Tollet Prepara-tions, S/268 Secgerol hair-dye, T/49 Sodium sulphite, M/278 Synol soap, L/278

Taylor's Cimolite, D/258 Trypan blue, M/258 Vitudatio, D/268 Waterproof sheeting, L/278 Wateson's feeding bottles, M/59

From a manufacturing firm in the Midlands:

"Please accept our best thanks for your prompt reply in supplying information requested in our letter of —. We have communicated with the names you give us, no doubt with good results. A service of this description is of the utmost benefit to subscribers."— (179/62.)

Observations and Reflections.

By Xrayser IL

Your Correspondent "Non-trader"

Surely the words "purporting, or stated directly or by implication," as used in the Proprietary Medicines Bill, refer not to what is stated in is somewhat over-subtle. medical books, but in the advertisements or descriptions of the medicine. What is prohibited is clearly the putting forward specifically of a remedy for the diseases in the schedule. This is what the Select Committee recommended, and I cannot see that the Act goes beyond this. And surely amenorrhoea is often due to "sexual weak-ness." There is no reason whatever in the nature of things why a chemist should not be allowed to recommend a remedy for amenorrhœa due to mere sexual weakness; the injustice of the Act is not that it goes beyond the recommendations of the Select Committee, but that the recommendations of the Select Committee, but that it follows them too faithfully. The point so ingeniously raised by "Formulator" is, I fear, negligible; in any case, we have by helping in the distribution (more shame to us!) of these spurious "new" and fantastically named articles put ourselves out of court with regard to them.

The Point Raised

by "Justice" and pressed by "Justice No. 2," ought to be driven home—I was going to say to the conscience of the National Health Insurance authorities, but I remembered in time that such bodies have no conscience. It ought, however, to be taken up by the Council of the Pharmaceutical Society and used for all it is worth in the pending negotiations for an increase of the dispensing-fee for next year. I write under the assumption that fee for next year. I write under the assumption that such negotiations are pending, although I have as yet heard nothing of them. But to negotiate with those who stopped part of our pay on the plea of poverty, and are now rolling in riches, is (to put it bluntly) to negotiate with persons devoid of conscience. If we cannot by negotiation recover what was filched from us, we ought to make this a casus belli to the extent of refusing service unless the chemists who were discounted are paid in full

The Americanisation

of "Boots" goes on apace, and will doubtless continue until the country is covered with pharmacies on the American model. There is, perhaps, something to be said for the opinion that this will be an advantage to the legitimate British pharmacist. Already "Boots" have so changed pharmacy that they have ceased to be a serious menace to the private chemist. I executed a commission at one of their shops for a country friend the other day, and I noticed that the drug department occupied an inconspicuous portion of the huge place. It will not do to build too much on this, however, and there will probably be a good many among us who will play the frog to the American ox, although they burst themselves in doing so. The wiser sort will, I fancy, "ca' canny."

Holidays

have their drawbacks, among which is the fact that, although we usually come back feeling "bucked up," a reaction often sets in soon afterwards, making us wonder whether the annual dislocation of our accustomed habits was, as a health investment, worth while. When the restraint of our daily duties is removed we are apt to overtax both our physical strength and our capacity for enjoyment—especially those of us who are pretty well advanced upon "the downward slope"—with the result that we are less, rather than more, fit for work on our return than when we left home. The man who sits upon the beach all day throwing stones into the water, or reading his London "daily" through, advertisements and all, may not suffer in this way, but he must surely be more or less depressed by the three weeks' boredom. I

suggest that the enterprising pharmacist might make capital out of this. Before the holidays he pushes bathing-caps and cameras; why should he cot, after them, introduce a post-vacation restorative? With a good name, and well advertised, such an article should seil. If anybody already has one on the market I shall be pleased, as a sufferer, to sample it for him.

In "Success in Retail Advertising"

(just issued in a new and enlarged edition) Mr. Thomas Russell endorses my oftenexpressed opinion that the persistent repetition of "a specific title in connection with the name of a given commedity" acts by a kind of hypnotic suggestion. I do not quite understand the way in which Mr. Russell nd not quite understand the way in which hir. mussen puts it, but the illustration he gives of the effect of such suggestion makes his meaning clear enough: "If we are always seeing Brown's soap advertised we grow to connect the name of soap with the name of Brown, and when we ask for soap we ask for Brown's soap. This might be extended to other things besides titles, a telling phrase often repeated in connection with a com-modity has very much the same effect, and the phrase need be neither convincingly true nor understood. "Worth a guinea a box" has never, I take it, been generally understood. Many people have regarded it as absurd, but interpreted to mean that a box of the as absurd, but interpreted to mean that a box of the pills is, or may be, worth a physician's fee, it is quite possibly true, and entirely incapable of disproof, and, misunderstood as it often has been, the phrase has been immensely effective A newspaper critic, commenting on Mr. Russell's book, remarks upon the infrequency with which the advertiser appears in fiction. He mentions only two instances, "Denry" in Mr. Bennett's "The Card," and "Uncle Ponderevo" in "Tono-Bungay" (the latter, he says, the perfect type). I venture to think that Jim Pinkerton in "The Wrecker" runs him close, if he does not surpass him. runs him close, if he does not surpass him.

Nux Vomica,

the source of which has long been known to be (as stated in your note) the Strychnos nux vomica of India, has a name which can hardly be accounted for by the properties of the nut. It has been contended that this name is derived not from *vomo*, but from *vomua*, a boil, and is due to some fancied resemblance of the seed to a boil. This is very far-fetched and unlikely, the real explanation seems to be that the and unlikely; the real explanation seems to be that the name "nux vomica" was originally given to the seed of Strychnos potatorum, which is emetic, and the pulp of the fruit non-poisonous. That the two seeds were formerly confounded seems certain; how else account for the conflicting opinions that prevailed concerning them? Most old writers declare nux vomica to be poisonous; others, and Lemery among them, deny this, though Lemery says that eaten by dogs it eauses death by swelling in the stomach until suffocation ensues. Many, again, declare that it is emetic, yet many say that it is not; and these differences are not explained by its having been confused with stramonium as Nuxmetella, for stramonium was always regarded as poisonous. Nux vomica appeared in the old London poisonous. Nux vomica appeared in the old London Pharmacopæia, but was omitted in 1654 as too dangerous a drug, and was not, if I remember rightly, reintroduced

A DEFENCE OF HOMOGOPATHY.—Addressing the British Homœopathic Congress in London on September 10, Dr. J. P. Sutherland (Boston, U.S.A.), President of the International Homeopathic Council, denied that homeopathy had fulfilled its mission. Homeopathy, he urged, was more than a protest against traditional crude and irrational drugging, which, even in 1920, was too much in vogue-It offered a definite curative therapy, and was not primarily and solely palliative. It treated a sick person as a whole, and did not select one from the most prominent symptoms for treatment. It taught that drugs were essentially sick-making agents, and, therefore, must be used with extreme care and intelligence.

"SANITAS" EMBROCATION.

Invaluable for

ACHES, SPRAINS & STIFFNESS THE ATHLETE'S BEST FRIEND

Of all Chemists, and

The "SANITAS" Co., Ltd., LONDON, E.14

ESTABLISHED 25 YEARS.

Inquiries solicited.

D. W. BULL, 4 Churchill Road, HOMERTON, E.9.

FENNINGS' REPUTATION

ADVERTISED EVERYWHERE, READY SALES. ALFRED FENNINGS, COWES, I.W.

ART OF DISPENSING. (9th Ed.) 8/-, by post 8/6. VETERINARY COUNTER PRACTICE. 6/-, by post 6/6. CHEMIST'S DICTIONARY OF MEDICAL TERMS. 3/6, bypost 3/10.

TELEPHONE MAYFAIR 5015.(4 lines)

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The imperative and urgent requirements of the surgeon or nurse in the matter of guaranteed

STERILIZED DRESSINGS

ore met by the day-and night service given by the pioneers of the hera etically sealed tin-

JOHN BELL & CROYDEN Ltd. 50 WIGMORE ST., LONDON, W.1.

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There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

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"TARTOLA" BRAND (Regd. Trade Mark)

NIGROSINES

Water Soluble and Oil Spirit and Fat Soluble Qualities.

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PRESCOTT & CO.,

(A. PRESCOTT) Holt Town Dve & Chemical Works, MANCHESTER

Wires: "Tartola Manchester."

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British White, B.P.

H. RUBECK, DISTILLER OF ESSENTIAL OF ESSENTIAL DISTILLER OF ESSENTIAL OF ESSENTIAL

59 Mark Lane, London, E.C. 3. Works - Rotherhithe, S.E. 16.

TOMLINSON & HAYWARD, Ltd., LINCOLN.

n announcement of particular interest to you appears in this issue on page 42

BRITISH ABSOLUTE ALCOHOL

Jas. Burrough Ltd. D.1 Cale Distillers, Hutton Rd.

Editorial Articles.

The Camphor Situation.

SINCE celluloid has become an indispensable product, and good quality cannot be manufactured without camphor, the demand for the latter continues to increase. True, it is possible to prepare camphor synthetically, but as at the present moment the raw material for this purpose, obtained from turpentine, is extremely scarce, it cannot be regarded in the light of a serious competitor. Japanese source draws attention to the decreasing production of camphor, due to the fact that in Formosa the trees which were readily accessible have been exploited. and now it is necessary to go into the interior of the island to tap the camphor forests, but this entails numerous difficulties, such as transport and the opposition of the wild tribes inhabiting the country. The following figures are given as representing the production during the past seven years, whereby it must be borne in mind that the expression "camphor oil" is applied to the crude oil, which still contains about 50 to 60 per cent. of camphor, in addition to essential oils and other oils, used as fuel, obtained from this product by distillation. The amounts are given in 1,000 kin:

				Raw	Camphor	Camphor Oil
1912						7.073
1913	•••	•••			5,576	7,395
1914			•••	•••	5,865	8,388
1915		•••	•••		6,220	9,882
1916	•••	•••	•••		6,517	11,010
1917	•••	•••	•••	•••	4,168	7,875
1918	`	•••	•••		2,740	5,591

Prior to the war Japan retained about half the total production for its own use, while of the amount exported. Germany, France, and Great Britain each participated to the extent of about 20 per cent., the United States' share being 40 per cent. During the war exports of camphor declined very considerably, except to the United States, in consequence of the increased consumption in Japan for the manufacture of celluloid, particularly of inferior grades. The following table shows the decline in exports (in kin):

ts to 1912 1918 Great Britain ... 1,151.000 491,000 France 1,113,000 126,000 United States ... 2,300,000 1,533,000 (1916 : 4,933,000) Exports to

Germany: 1,547,000, 1,132,000, and 664,000 kin for the years 1912, 1913, and 1914 respectively. During the past year the total production is estimated to have reached 5,000,000 kin, and it is hoped to maintain this figure for the next few years. The Japanese Government, in view of the undoubted shortage of camphor, after providing for the demands of the home market, is now rationing supplies to foreign countries. During the first three months of the present year the following amounts were allotted: Great Britain, 100,000 kin; France, 42,000 kin; North America, 275,000 kin. In this connection it is interesting to note that whereas Great Britain, and also France, pay at the rate of 627s. per cwt., the price charged to the United States is 557s.; at the end of the past year the corresponding prices charged were 227s. and 179s. respectively, a fact which explains the high price of celluloid. It may be mentioned in explanation of the difference in the price for Great Britain and the United States that to the latter country only raw "B" camphor is exported, from which the "B.B." camphor for the European market is distilled, a process which entails a loss of 12 to 13 per cent., so that in the end both prices are equalised. Camphor is also produced in the Chinese provinces of Fukien, Kwantung, and Kwangsi; but, in consequence of the ruthlessness with which the trees have been treated, exports from Foochow have dropped from 1,516,000 lb. in 1906 to the almost insignificant amount of less than 50,000 lb. in 1917. In spite of the considerably higher prices, the exports in 1918 from Foochow only amounted to 56,000 ib. A provincial camphor distillery has been erected in Kwangsi, provided with up-to-date apparatus, but so far no reports have been published regarding the output. The Chinese Government proposes to plant a large number of camphor trees, which will be available for the production of camphor in about fifty to sixty years, but the population shows an utter disregard of the decree requiring the plantation of young trees in the place of those destroyed. Strange to say, foreigners experience the greatest difficulties when wishing to exploit camphor trees in China. These are generally found scattered, and great difficulties are encountered in locating the owner of the trees; further, many of these trees are planted near graves, and to avoid complications it is necessary to purchase the graves as well, which always lie scattered over the country. The scarcity of

camphor is being acutely felt in many branches of industry, and numerous attempts are being made to produce a satisfactory substitute. Nothing more has been heard of a product made two years ago in Japan from soya bean. Attempts were made in Formosa to distil camphor from the leaves of the trees, but the yield proved very small, and was, in addition, contaminated by large amounts of resin and chlorophyll. Until the new plantations in Formosa can be exploited, which will not be the case for many years to come, camphor will continue to be a much-sought-after article, and will remain scarce; now is the chance for synthetic camphor to usurp the place of the natural product. Even the scarcity of camphor is attributable to the Germans: the war has left in its train a great scarcity of turpentine, which necessitates a high price for the synthetic product. The felling of trees in France is greatly to blame for this state of affairs.

Ministry of Health Report.

THE Local Government Board was last year re-named the Ministry of Health, and under the new title has issued its first annual report. A great part of the duties of this Government Department still consist of activities in connection with the Poor Law, housing, and local taxation, and if it had not been for the amalgamation of the duties of the Insurance Commissioners with the department it would have little justification for its change of name. The interesting thing from the chemist's point of view is that the Ministry of Health is run by doctors, and that in consequence the administration shows an unfriendly attitude to pharmacy. This is particularly unfortunate from the public-health point of view, as the co-operation of chemists in several much-needed reforms would be of the greatest value to the public. An example of the want of tact is the references to chemists in the circulars issued by this department in connection with the Venereal Disease Act, which we have referred to on previous occasions. Dealing with the provision of free clinics, we find that in one country town the Venereal Clinic is available from twelve to one on one day in the week, an altogether inadequate and inconvenient provision from the public point of view, but splendid from the standpoint of the local doctors. A section of the annual report of the Ministry of Health is devoted to the administration of the Venereal Disease Act. A curious point about this part of the report is the constant reference to "substitutes for salvarsan," which are supplied at the public expense. It is almost a certainty that salvarsan itself, and not substitutes, is intended, as salvarsan is employed in the majority of cases. Salvarsan is made by several British manufacturers who have licences to employ the patent processes—their product is real salvarsan, not a substitute. The expenditure on salvarsan and similar compounds by local authorities for the year ending March 31, 1919, was approximately 19,000%. Grants in aid of venereal disease schemes amounted to 224,7161. for the year ended March 31, 1920, and many people will be surprised that 15,600% was paid to a private society in respect of propaganda work. The Society referred to is the National Council for Combating Venereal Diseases, which consists mainly of doctors. The report states:

The work undertaken by the National Council and their local branches has been of considerable assistance in the campaign against these diseases. The efforts which they have made to educate and stimulate public opinion have in many cases materially helped in the overcoming of opposition to the establishment of treatment centres and in

the provision of further treatment centres in areas where additional facilities were needed. Their propaganda work has been the means of securing the attendance at treatment centres of many patients, and of directing the attention of the public to the dangers of venereal diseases and their evil effects upon the life and health of the nation.

Some interesting details are given in regard to the administration of the Sale of Food and Drugs Act, from which it appears that 3,562 samples of drugs were examined during the year, and 10 per cent. reported against as not being genuine. A special paragraph is devoted to camphorated oil, in which it is stated that eighty-one samples out of 423 were found to be not genuine. We are not surprised to find that in the majority of cases mineral oil was found to have been used in place of vegetable oil. The General Medical Council is responsible for the use of liquid paraffin in camphorated oil, and it is hardly to be expected that on the restoration to the British Pharmacopœia of camphorated oil made with vegetable oil, that the large stocks of the preparation made with mineral oil would be emptied down the sink. Special reference is also made to arsenical borax, boric acid, and cream of tartar. It is stated that commercial borax is almost always found to contain arsenic, from which it can be freed at considerable expense by repeated recrystallisation. new "stunt" for the analysts is the fact that egg-powder does not always contain eggs, which is a reminder that labels should qualify the words egg-powder in case ignorant persons should imagine that they are purchasing eggs. The section of the report on the administration of Medical Benefit under the National Insurance Acts gives the following details regarding payment for drugs and appliances:

appliances:

With regard to the payments to chemists, additional war allowances were paid at the rate of 0.3d., 0.75d., and 1.2d. per prescription respectively for the years 1917, 1918, and 1919, and upon a general revision of the terms for 1920 new rates were fixed after discussion with the representatives of the chemists, which took into account the increased cost of living and the increased business expenses generally. Before the war allowances were added, a sum of 2.8d. per prescription was payable for the greater number of prescriptions compounded by chemists, and payment for other articles was at varying rates. Under the terms fixed for 1920 (including the war allowances) a sum of 5.4d. per prescription is paid for the majority of prescriptions, and other rates have been suitably increased under the tariff forming part of the terms of service. Apart from these rates, which are paid for professional services and establishment charges, the chemists are paid the actual cost price of the ingredients in accordance with a commercial tariff, which is subjected to monthly revision according to the arrangements set out in paragraphs 263-284 of the previous report. The arrangements set out therein with regard to the pricing of prescriptions by Pricing Bureaux have continued, and have worked satisfactorily.

References are made to the arrangements as regards chemists and military service under the scheme of 1918, but it is not clear why this matter is dealt with in a report covering the year ended March 1920.

Arsenic Supplies.

THE price of white powdered Cornish arsenic has fluctuated for some time past in the neighbourhood of 75l. per ton, which figure is about one-half of the extreme highest recorded in the year 1918 for small lots only. The present quotation to home consumers is, however, more than six times that seen at one period in the pre-war year 1913, when sales were made even at below 121. per ton. Compared with many other products, arsenic seems very dear, especially considering the remarkable development which has taken place in the world's output within I their opportunities in connection with the treatment of

the last six years. While the British sources of production over that period have been developed to an appreciable extent, as indicated by the interesting particulars issued recently by the Imperial Mineral Resources Bureau the outstanding feature is the extraordinarily rapid expansion of the United States output of white arsenic. This output, which in 1913 was only 2,280 metric tons, reached in 1918 as much as 10,275 tons, while the returns for the latter year were nearly double those for the previous year. This is chiefly attributed to the increased recovery of waste arsenic from smelter fumes, while the big increase has apparently not involved the opening up of new mineral deposits in that country. It had been well known for many years past that special efforts were made in the chief copper-smelting districts, especially in Montana, to remove the public nuisance and serious injury done to farm lands by the dense fumes of arsenic thus going to waste, so that the successful elimination of the fume troubles on a scientific basis resulted in the recovery The United States is, of large quantities of arsenic. therefore, now by far the largest producer of the product. The tabulated figures (metric tons) of output given below are those compiled by the Imperial Mineral Resources 1017 1014 1015 1010 1010 1010 1010

ı		1913	1914	1915	1916	1917	1918	1919
l	United Kingdon	n :						
ı	Arsenic crude							
ı	& refined	1,723	2,020	2,537	2,587	2,669	2,387	2,568
I	Arsenical	· 1						
l	pyrites	36		428	304	441	485	76
l	Southern							м
1	Rhodesia							
ı	(ore)		69	_			103	219
1	(ore) Union South							
1	Africa							
ı	(white							
ı	arsenic)	—		 .		3	14	7
1	Canada:-							
1	White arsenic	1,535	1,576	2,174	1,984	2,410	2,251	2,416
ı	Concentrates	-	<u></u>	_		254	978	481
١	Australia (ore)	_	<u> </u>	-	11	90	911	1,104*
١	France (ore)	70,613	_			_	-	
	Germany							
	(exide and							
Ì	sulphide etc.)	5,008		-	,			—
	Portugal.							
	(mostly							
	white							
	arsenic)	925	960	1,005		-	_	1
	Spain (arseni-						1	
	cal pyrites)	-				-	250	_
	Mexico (white							
	arsenic)	-	-	_		1,285	1,881	-
	U.S.A. (white	2 200						
	arsenie)	2,280	4,238	4,989	5,432	5,582	10,275	
	China (expts.							
	of arsenic			F.C.	400	710	170	
	trisulphide)	547	115	58	490	310	138	_
	Japan (white	0.5					045	
	arsenic)	21	15	, 15	_	-	245	_
	* Arsenic.	† In	ncludin	g 146 t	ons of	arseni	cal pyri	ites.

As will be seen, these returns are incomplete, especially in the case of France and Germany, whose production has probably been more or less progressive from the comparatively large returns already indicated in the above table for 1913, and it would be interesting to know what their present production is. Fairly large quantities are also produced in Greece, chiefly by a large French-owned leadmining company, which handles arsenic as a by-product, the output of which has already been sold up to the end of the year, but we notice that no mention is made of Greece in the compilation referred to, as probably no returns have ever been issued. Obviously, the use of arsenic during the war gave a tremendous impetus to the growth of the industry, while the price rose to a fabulous level and metallurgical interests have made the most of

their lead, copper, and silver ores. In our editorial columns within recent years we have dealt extensively with the arsenic industry, and pointed out the large increase in the American production, and there is not much doubt that the United States may soon have a surplus available for export after providing for domestic needs. In regard to the British Colonies, the production in Canada has increased at about the same ratio as that of this country, and the bulk of that production is exported. The exports from Canada, which in 1913 totalled 1,303 short tons, were in 1917 as much as 4,286 short tons, to the value of well over half-a-million dollars, although the returns for 1918 fell to 2,672 tons. On the other hand, Canada imports certain quantities of allied products, including arsenious oxide and sulphide of arsenic. During the last seven years the Canadian output of arsenic was almost entirely obtained from the silver-cobalt-nickelarsenic ores of the Cobalt district, Ontario, where arsenic is recovered as a by-product in smelting works. Ontario Government made an attempt to encourage production by a system of bounty at the rate of half a cent per lb. on white arsenic produced from arsenopyrite ores only, but this led to no results while the producers in the Cobalt districts were, by the terms of the Act, not entitled to the bounty. Better progress was made with the production in Australia last year, with a total of 1,104 tons of white arsenic, as the result of the active prospecting which took place in the latter part of the war period, as pointed out by the Imperial Bureau. The resources of the country are doubtless capable of further development, which would be facilitated if sufficient arsenic could be produced to permit of exports, and thus take advantage of the much more remunerative terms obtainable in the foreign markets than locally. It is stated that in June 1918 the maximum price to wholesalers in Australia was fixed at 60%. per ton for quantities in excess of one cwt., but it is to be remarked that the price at that time to consumers on this side was well over 100%, per ton. Now, according to the latest advices available in regard to the Queensland State Arsenic Mine, the June output this year was fifty-four tons, the bulk of which was being disposed of locally, for prickly-pear destruction, at only 101. per ton, although offers of 60%, a ton c.i.f. for as much as one hundred tons were cabled from this side. Urgent needs in Queensland, however, unfortunately do not permit of that c.i.f. price for this market to be taken advantage of. There is thus an incentive for pushing production in excess of local needs. While only comparatively small quantities of arsenic compounds are used for medicinal purposes, it is interesting to note the fact pointed out by the Imperial Mineral Resources Bureau, that one of the uses to which arsenic was put during the war was the manufacture of poisonous gas, and this probably explains the large increase in the outlet for arsenic in the latter part of the war period. The search for new sources of production was thus stimulated even in South Africa, where practically nothing had ever been produced until 1918. A considerable amount of arsenic could, if necessary, be obtained as a by-product in mining and treating arsenopyrite in association with tin ore in South Africa, while arsenic compounds occur also as impurities in some gold and other ores in South Africa. The value of total consumption of arsenic compounds in the Union of South Africa is represented as 100,0001., and the question of making the country independent of imports of this commodity is having attention, especially having regard to the agricultural industries, while in

1916 there were 6,936 dipping tanks in use in different parts of the Union. A similar problem is under consideration in Rhodesia, where 640 dipping tanks were in use in 1917. The quantity of arsenic ore produced in India is insignificant, so that the country is chiefly dependent on imports, which since the outbreak of war came largely from this country. The consumption of arsenic in the United States is particularly heavy, having been estimated by the authorities at as much as 12,000 short tons per annum, or rather in excess of the available supply in 1917. Supplies from other countries, therefore, appear to be easily absorbed since the uses of the product have been constantly on the increase, this including the making of pigments and glass, for which arsenic is used to counteract the colouring effect of metallic oxides and to give brilliancy to the glass. It is claimed that glass-making in the United States absorbs about one-third of the total domestic consumption, and that the remainder is taken up for agricultural purposes

Tropical Disease Clinics.

THE following circular regarding the prescribing and dispensing of prescriptions has been issued by the Ministry of Pensions to Regional Directors:

1. Under no circumstances will a clinic advise a pensioner 1. Under no circumstances will a clinic advise a pensioner to take a prescription to any particular chemist. The pensioner is at liberty to go to any chemist on the National Health Insurance Panel who has agreed to dispense for

this Ministry.

2. In no case shall a single prescription providing medi-

2. In no case shall a single prescription providing medicine for more than seven days be given to a pensioner.

3. No prescription is valid for more than seven days, and chemists are asked not to accept such scripts.

4. In tropical clinics where it is found necessary to give medicine for a longer period than seven days without the case in the meantime attending the clinic, more than one prescription may be given. Each prescription must be dated for the week to which it applies, but in no case can more than four prescriptions be issued at one time. In no other case will more than seven days' medicine be prescribed.

5. Two prescriptions

5. Two prescriptions in most general use by tropical clinics have been printed in order to save clerical work at those clinics which care to adopt them. They are:

M.P.M.S.D. 60A. Quininæ sulphatis Acidi sulph. dil. ... Aquæ ad ... q.s. • • •

Sig. Two tablespoonfuls every day just before breakfast, without fail.

M.P.M.S.D. 60B. Liq. arsenic hydrochl. ... Ferri sulph. ... Mag. sulph. Aquæ ad grs. xlviii.... 3iss. ... žxij.

Sig. One tablespoonful in a liftle water three times a day, after meals.

Commissioners should notify M.S.2 of the number of these books (each containing fifty prescription forms in duplicate) that they require.

diplicate) that they require.

6. Every prescription must be handed to the patient in duplicate, and the chemist is asked not to dispense any medicine unless he obtains two copies of the prescription.

7. Clinics must use the Ministry's form, and chemists are warned not to accept any prescriptions unless they are on the Ministry of Pensions pink form (known as M.P.M.S.D. 60, 60A, and 60B), as none others will be accepted for payment.

8. No proprietary articles, dressings, or artificial appli-

8. No proprietary articles, dressings, or artificial appliances may be prescribed or supplied on M.P.M.S.D. 66,

The prescriptions are those given in the C. & D. July 31, p. 58. In view of the note which we published recently (C. & D., September 4, p. 82), the terms of the first paragraph in the above official circular should

Italian Chemical-Pharmaceutical Industry.

Ar the first congress of the Italian sanitary industries, held in Milan, Signor G. Dalai, director of the National Society of Chemical and Pharmaceutical Products, made an interesting communication on the subject of the supply of raw materials for the Italian chemical-pharmaceutical industry, and the problems arising out of the present situation, which is reported in the "Giorn. di Chimica Industriale ed Applicata" (No. 6, 1920). He divided this branch of industry into three groups: (1) Galenical products; (2) inorganic pharmaceutical products; (3) organic pharmaceutical products. A summary of the principal points of his communication is given below.

Galenical Products.—In the first place it will be necessary, in the national interest, to promote the cultivation of all those medicinal plants, and also essential-oil-producing plants, which occur in Italy, or can be acclimatised in the country. In the absence of any restrictions on the exportation of drugs, practically the whole yield has been bought up by foreign dealers, resulting not only in a formidable rise in prices, but depriving the country of many precious drugs, such as stramonium and ergot, which at the present moment are almost unobtainable in Italy. To illustrate the advance in prices of drugs grown in Italy, the following examples may be adduced; prices are quoted in lire per kilo.:

		1915	1917	1919	1920
Aconite root		1.00	3.00	4.00 -	5.00
Belladonna	•••	1.00	6.00	8.00	10.00
Chamomile	•••	1.50	3.50	4.00	8.00
Digitalis		1.00	5.00	5.50	6.00
Male fern		0.25	0.40	0.75	1.00
Hyoscyamus		0.75	8.00	8.00	9.00
Liquorice-root, pe	eled	1.25	4.25	5.50	6.50
Ergot	,	6.50	12.50	30.00	250.00
Valerian		1.00	5.00	8.00	10.00

His remarks on the drugs which have to be imported are of particular interest. Signor Dalai states that these have now almost exclusively to be imported from Great Britain and America. The principal reason for the increase in the prices which have now to be paid is "due to the fact that in consequence of the disappearance of the great markets of Trieste and Hamburg, Italian buyers are obliged to pass under the Caudine yoke of the great English houses of London and of Liverpool—the gatherers of the colonial produce of the vast British Empire, and to submit to the speculative moods of the great firms of the United States, which attract the production of North and South America." He recommends the cultivation in Italy of a large number of foreign plants, which can be acclimatised in the country, such as hydrastis and senega. The following examples illustrate the rise in prices of imported drugs:

1920
11.00
28.00
12.00
00.00
20.00
00.00
6.00
75.00
70.CO
60.00

To remedy this state of affairs, he states that it is imperative that Italy should obtain her supplies direct from the producers, with whom it would be an easy matter than the producers of speeds.

to arrange for an exchange of goods.

Inorganic Chemical-Pharmaceutical Products.—In this field national production has made very considerable strides, and is in many instances not only able to supply the home market, but is also in a position to export. This refers more particularly to the salts of calcium, sodium, barium, magnesium, zinc, mercury, lead, iron, ammonium, boric acid, sulphur, etc. On the other hand, Italy is obliged to import bismuth, lithium, silver, iodine, and, owing to the absence of a sufficiently well-equipped

industry, sodium carbonate and bicarbonate, phosphoric acid, and bromine. In the following tables a few figures relating to the chemicals exported are given:

			1917	1918	1919
Mercury	(kilos.)	1,115,500	1,219,300	492,400
Boric acid		•••	1,000,600	1,208,200	1,408,300
Calcined magnes	ia '		374,300	284,600	258,900
	- '				

On the other hand, the following chemicals had to be imported:

	`	1917	1918	1919
Iodine	(kilos.)	35,400	24,200	39,900
Iodine salts	,,	16,800	- 15,700	18,800
Bismuth and sal	lts ,,	6,300	14,700	8,300
Sodium carbona		29,583,300	22,651,400	27,234,600
Sodium bicarbor		1,223,600	1,912,300	2,241,100
Phosphoric acid		6,100	13,200	12,300
Bromine	3.9	5,200	37,800	-
Bromine salts	,,	35,900	10,500	18,700

The manufacture of hydrogen peroxide, made from barium superoxide principally obtained from Great Britain. has developed very largely during the war, and it is imperative, Signor Dalai points out, to solve the problem of its manufacture by electrolytic methods.

Organic Chemical-Pharmaceutical Products.—In this field Italy is bound to remain tributary to foreign countries for its supplies, as long as the duties on organic solvents used for manufacturing purposes are not removed. As regards alkaloids, Italy has the raw material for the production of but a few, such as caffeine, atropine, hyoscyamine, digitaline, aconitine, and sparteine, the latter now being produced in several Italian laboratories. However, in this category one of the chief problems

However, in this category one of the chief problems which await a satisfactory solution is the question of the supply of quinine. After the United States, Italy is the principal consumer of quinine in the world, and in 1919 imported 97,248 kilos., three times as much as France. The Italian Government has succeeded in securing the supply of 50,000 kilos. of quinine by contract with the Dutch Government, while about 5,000 to 6,000 kilos. will be available from the German stocks, in accordance with the Versailles peace treaty; for the remainder it will have to enter the world-market as a buyer.

Citric and tartaric acids are the chief exports in this category, and were exported to the following amounts:

Citric acid (kilos.) ... 1917 1918 1919
Cartaric acid , ... 2,412,700 1,971,000 2,542,500

With regard to both, it is interesting to note how prices have advanced during the past years (in lire per kilo.):

	1916	1917	1918	1919	1920
Citric acid	 8.00	9.25	13.00	18.00	36.00
Tartaric acid	 7.50	8.50	11.00	14.00	32.00
24 644 644 644					

On the other hand, the following quantities of acetic acid and of tannic acid had to be imported:

	1917	191 8	1919
Acetic acid, 98 per cent.	 51,600	67,600	487,500
mis said ways	24 700	23 400	19.200

In order to promote the Italian chemical-pharmaceutical industry, Signor Dalai urges State help in encouraging those undertakings designed to cultivate on a large scale the necessary plants for industrial uses; State regulation of the production and collection of the necessary raw materials for this industry, in order to prevent the country being drained of the requisite products, and a co-ordination of the various bodies to ensure direct importation from the sources of other materials; a solution of the supply of quinine; removal of the heavy duties on organic solvents used for industrial purposes; the proper organisation and development of the chemical industry of the country, particularly with regard to the supply of those chemicals which form the base of other preparations, such as phenol, acetic acid, bromine, sodium carbonate and bicarbonate, etc. and finally, in order to promote a more thorough collaboration between scientific pharmacology and the chemical-pharmaceutical industry, he demands the creation of special institutes for carrying out chemical as well as physiological tests, so that all the individual efforts may be cordinated, in order to achieve those results to which Italian culture and genius are entitled.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here efforted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Sept. 16.

The depression in business appears to have been more acute this week, and the falling tendency of values has become more accentuated. Primarily this may be attributed to the factors which have been operating for some months past—i.e., labour unrest, restriction of credit by bankers, dear money, and the unwillingness to buy on falling markets. Another important factor stultifying business is the acute weakness which has again developed in sterling in terms of dollars, the rate touching at one period of the week \$3.45, which reduced the value of the pound to 14s. 2d. This naturally adds to the cost of American purchases, and those who have bought goods to arrive find themselves in the unenviable position of either carrying their stocks, awaiting better times, or cuting their losses. The French and German rates of exchange have also displayed renewed weakness. The rates are now so high that export business to these countries is crippled and no real benefit is derived from the so-called "favourable" movement. Japanese products have shown increased weakness, this applying to menthol, refined camphor, and dementholised mint oil. At the present time London is carrying fairly heavy stocks of crude drugs, and in the absence of auctions prices are a matter of negotiation. Ipecacuanha and sarsaparilla have eased in value. Bayberry, buckthorn-bark, balsams tolu and Peru are cheaper at the source. Balsam Canada and hydrastis are dearer. Zanzibar cloves and eucalyptus oil are firmer. Coriander, fenugreek, and linseed are firm; canary is steady. Among pharmaceutical chemicals, benzoates, potash and soda bromide, chloral hydrate, guaiacol carbonate, lithia carbonate, barbitone, salicylates, theobromine, phenazone, sulphonal, methyl sulphonal, resorcin, tartaric and citric acids, and cream of tartar are more or less cheaper in the absence of demand. Turpentine has sharply advanced, and TN shellac is 10s. lower.

Higher	Firmer	Easier	Lower
Balsam (Canada) Hydrastis Strychnine ("Hulle's") Turpentine	Cloves (Zan.) Eucalyptus oil Linseed oil	Acetic acid (80 p c.) Ammon. ichthyosulph. Anise oil, star Calcium lactate Camphor (Jp. ref. slabs) Farina (Jp.) Gambier (cubes) Guaiacol carbonate Ipecacuan ba Lithia carbonate Pepper Resorein Salicy lates Sarsaparilla Soda bromide Soda diethyl- barbituric Tartaric acid Theobromine (pure and soda sal.)	Benzoic acid Castor oil Chloral hydrate Cream of tartar Citric acid Glucose Menthol Methyl- sulphonal

Cablegram.

New York, September 14.—Business is fair. Menthol is lower at \$7.45 per lb. Buckthorn-bark has been reduced to 32c. per lb. Balsams are lower, tolu offering at 90c. and Peru at \$3.75 per lb. Formaldehyde has declined to 45c., and milk-sugar to 26c. Citric acid is cheaper at 70c. per lb.

ACETIC ACID.—Very fair-sized quantities continue to arrive from the Continent and Canada: 80 per cent. pure can be had at 85*l*. per ton, and 99 to 100 per cent. glacial in carboys at 100s. to 115*l*. per ton ex wharf London.

Albumen is quiet, with sellers of prime Chinese hen at 4s. 10d. per lb., and September-October shipment at 4s. 8d. c.i.f.

Ammon. ICHTHYOSULPHONATE.—Japanese is easier at from 2s. 3d. to 2s. 4d. per lb., and up to 2s. 6d. in 1-lb. tins.

Anise Oil, Star, continues quiet, with sellers of "Red Ship" brand at 4s. per lb.

ANTIMONY.—Chinese crude is available in fair lots at 38l. per ton ex warehouse. There is a fair demand for regulus at about late rates. The market in America is reported somewhat firmer. White oxide of antimony is worth 65l. per ton in London.

APRICOT KERNELS.—Bitter are offered at 658, per cwt. on the spot.

Arsenic.—The demand is not so good, but holders seem to have no difficulty in maintaining their terms for white Cornish powder at 74l. to 75l. per ton, delivered London. Australian is apparently obtainable at below 70l. in small lots.

Atropine.—Makers quote 40s. per oz. for the sulphate. Balsams.—Canada is dearer, spot holders asking 11s. per lb. Tolu continues to sell at 6s. per lb. for good bright hard. Filtered Central American Copaiba in cases is quoted at 4s., and filtered Maranham in cases at 4s. 6d.; filtered Para in cases is 3s. 1d. per lb. Peru of direct import is quoted at 25s. 6d. per lb. on spot.

BARBITONE is again cheaper, importers offering at from 23s. 6d. to 24s. 6d. per lb., according to quantity. Soda diethylbarbituric is also easier at 37s. 6d. per lb.

BAYBERRY-BARK is cheaper, spot offering at 28. 5d. per lb.

Benzoates are lower, benzoic acid ex toluol offering at from 3s. 4d. to 3s. 6d. per lb. on the spot and at 3s. 3d. per lb. c.i.f. to come forward. Sodium benzoate is about 6d. per lb. cheaper, offering at from 3s. 3d. to 3s. 9d. as to quantity.

Bromides.—Prices appear to be a matter of negotiation, the spot quotations of potassium being from 2s. to 2s. 3d. per lb., and for forward delivery ton lots offer at slightly less. Sodium is also cheaper at from 2s. 8d. down to 2s. 6d. per lb. as to quantity and seller, and ammonium is 2s. 9d.

Cadmium.—There is a moderate inquiry, and sellers are more reserved at 7s. per lb. on account of the sharp decline in the American exchange.

CALCIUM CHLORIDE has been advanced by the makers by 17s. 6d. per ton; from 9l. 10s. to 11l. per ton in drums, f.o.r. makers' works, is quoted.

CALCIUM LACTATE is the turn easier, importers offering at from 5s. to 5s. 5d. per lb.

CAMPHOR (REFINED) is quiet and easier, with spot sales of Japanese 2½-lb. slabs at 6s. 3d. per lb.

CANARY-SEED is steady at 140s. per quarter for screened River Plate, and 170s. to 172s. 6d. for good Morocco.

CANTHARIDES.—Russian continue scarce at 14s. 6d. per lb. on the spot, and Chinese remain plentiful at about 5s. 3d. per lb.

CARAWAY-SEED is unchanged at 40s. per cwt. for good Dutch, and 20s. for North African.

CASCARA SAGRADA maintains its previous prices, holders quoting from 98s. to 100s. per cwt. on the spot as to age and seller.

Cassia Fistula.—Spot sales have been made of the recent consignments offered, and for good sound 82s. 6d. has been paid.

CASTOR OIL is cheaper, pharmaceutical quality offering in barrels at 75l. per ton, first pressing at 73l., and second pressing at 68l. per ton.

Chamomiles.—Belgian are steady, new crop offering at 170s, per cwt. on the spot. The flowers are small and

off colour this season, probably owing to the unseasonable weather.

CHILLIES.—At auction 295 packages Zanzibar offered, and 145 sold at 130s. per cwt. for dull mixed reddish and yellowish.

CHLORAL HYDRATE is about 6d. per lb. lower, duty-paid crystals offering in cases at 6s. 6d. per lb., and smaller quantities at 6s. 9d.

CITRIC ACID is cheaper to buy, dealers offering at from 4s. 3d. to 4s. per lb. as to quantity; stock is plentiful.

CLOVES are firmer, with spot sales of Zanzibar at from 1s. $7\frac{1}{2}d$. to 1s. 8d. per lb. Penang have been in fair demand, but supplies are short, and higher prices are looked for.

Cod-Liver Oil.—The exports from Norway up to August 20 amounted to 26,000 barrels. Business continues dull on the Norwegian market, and the tendency is towards lower prices. There is little doing on the London market, agents offering at 275s. per barrel c.i.f.

COLOCYNTH.—Turkey apple is selling at from 2s. 3d. to 2s. per lb., and pith at from 1s. 9d. to 1s. 6d. per lb. as to colour.

Copper Sulphate.—Prices have lately swayed a good deal, partly owing to keen competition to secure export orders, in order to guard against accumulations where working is proceeding regularly at a comparatively low cost, but some makers have, nevertheless, raised their terms considerably—up to about 49l. per ton f.o.b. Liverpool for casks, less 5 per cent.—chiefly because of the further substantial rise in the price of ordinary bar copper to practically 100l. per ton. It is probable, however, that orders could still be arranged for sulphate at around 40l. to 41l. There is a fair export demand, but buying on home account is limited. Our exports last month made again a miserable showing at only 638 tons, compared with 1,417 tons in the same month in 1913. At this time of year there is usually some recovery in export business, but the outlook is not promising. The total quantities exported in eight months were only 17,731 tons, against 29,295 tons and 72,688 tons respectively in the same period in 1919 and 1913.

CORIANDER-SEED is firm at 18s. 6d. to 21s. per cwt. for fair to good Morocco, and at 15s. to 17s. for common.

CREAM OF TARTAR is lower, 99 to 100 per cent. powder offering at 260s. per cwt. in cwt. kegs.

CUMIN-SEED is unchanged at 35s. to 37s. 6d. per cwt. for fair to good sifted Morocco.

EGG PRODUCTS are quiet. Chinese liquid hen-yolk is offered at 90s. per cwt. for old and 115s. for new; to arrive, September-October shipment has been sold at 100s. per cwt. c.i.f. Dried yolk has been sold at 10d.; sprayed whole egg is 1s. 10d., and native dried whole egg is 11d.

per lb. spot.

Ergor continues to be offered at irregular prices from Spain and Portugal, varying from 16s. to 17s. per lb. c.i.f.; spot values are from 16s. to 17s. per lb.

EUCALYPTUS OIL continues in fair demand, and prices are firmer at from 3s. 3d. to 3s. 6d. per 1b.

FARINA is quiet and the turn easier, with sales of No. 1 Japanese at 31s. to 31s. 6d. per cwt. on the spot, and September-November shipment at 30s. 6d. c.i.f. The value of sweet-potato flour is 30s. on the spot.

FENNEL-SEED is quiet at 33s. per cwt. for ordinary quality.

FENUGREEK-SEED keeps firm at 15s. 9d. per cwt. for fair

Morocco.

FORMALDEHYDE is pressed for sale at the moment and somewhat easier, 40 per cent. offering at 310s. per cwt.

GAMBIER.—Cubes are easier, good No. 1 offering at 60s. down to 52s. 6d. per cwt. for ordinary.

GINGER.—At auction 410 bags Cochin offered and ten sold at 55s. per cwt. for rough, medium to bold slightly wormy; forty cases cut Calicut were bought in at 180s. for medium and 160s. for small.

GLUCOSE is cheaper, with spot sellers of water-white liquid at 51s. per cwt., duty paid.

GUAIACOL CARBONATE has eased a further 18. per lb., importers offering at from 22s. to 23s. per lb.

GUM ACAGIA is quiet, with fair Sudan sorts offering at 70s. to 72s. 6d. per cwt., and cleaned at 75s.

Honey.—The recent decline in sugar has affected prices of the commoner grades of honey used for manufacturing purposes, and these are cheaper. Good pale-set quality still retains its price at round about 100s. to 105s. per cwt. Australian in cases is scapee and wanted. New-crop Jamaica has been sold in substantial quantities at, it is said, about 65s. to 70s. per cwt.

HYDRASTIS, which is one of the few drugs showing a rising tendency of late, has been selling at from 33s. to 34s. per lb., but 35s. is now asked.

IPECACUANHA is slightly easier, Matto Grosso offering at from 15s. to 16s. per lb. for ordinary lean to good. Cartagena is offered at 15s. to 16s., Minas at 15s., and East Indian at 15s. 6d. per lb.

KAMALA.—Small sales have been made at 6s. 6d. per lb. LINSEED is firm at 45s. per cwt. for good quality.

LINSEED OIL.—The market is in a healthy position, the current output being easily taken care of by the little demand on home and export account, and the price early this week again advanced a little, while forward positions are very steady. The tendency is thus confirming the opinion we expressed in previous issues. Spot closes at 811. 10s., and Hull at 771. 10s. naked.

LITHIA CARBONATE is easier, American offering at from 8s. 6d. to 9s. per lb., according to quantity.

Manna.—Large flake to arrive is offered at 5s per lb. in cases, small flake at 3s. 3d., and sorts at 2s. $3\frac{1}{2}d$. per lb. delivered ex wharf London.

MENTHOL is dull, and about 3s. per lb. lower on the week, with spot sellers of Kobayashi-Suzuki at 31s. per lb.

METHYL SULPHONAL is about 5s. per lb. cheaper, importers offering at from 38s. to 39s. per lb.. as to quantity.

MINT OIL is quiet and easier, with spot sellers of Japanese dementholised (Kobayashi-Suzuki) at 7s. 1½d. per lb.

Musk Ambrette is cheaper, dealers offering at 310s.

MUSTARD-SEED.—Fine new-crop English yellow is offering at 65%. per cwt.

ORANGE-PEEL continues plentiful, thin cut so-called Maltese offering at from 1s. to 1s. 3d. per lb. for dull to bright strip.

Pepper is quiet, and the turn casier, with sales of fair black Singapore at $7\frac{1}{4}d$. to 7d. per lb. on the spot. To—arrive September-November and October-December shipments have been sold at $7\frac{5}{2}d$. per lb. c.i.f., with further sellers at $7\frac{1}{2}d$. c.i.f. Lampong is $7\frac{1}{2}d$. spot and $7\frac{1}{4}d$. c.i.f. Tellicherry is $7\frac{3}{2}d$. and Aleppy $7\frac{1}{4}d$. at which sales have been made. White pepper is also quiet, the spot value of fair Muntok being 1s. $3\frac{1}{2}d$. business having been up to 1s. $3\frac{3}{4}d$. to 1s. 4d. Near-at-hand has been sold at 1s. 3d. August-October and September-November shipments at 1s. $2\frac{1}{2}d$. to 1s. $2\frac{3}{8}d$. to 1s. 2d. be c.i.f. Singapore has been sold at 1s. $2\frac{1}{2}d$. to 1s. $2\frac{3}{4}d$, with sellers of October-December shipment at 1s. $1\frac{1}{4}d$. c.i.f.

PHENAZONE is lower, with sellers quoting 17s. 6d. per lb. PIMENTO continues quiet, the value being nominal at 4d. per lb. on the spot.

PIPERAZINE.—Genuine pure crystals are offered at 7s.

POTASH PERMANGANATE.—Spot parcels continue to be quoted at from 3s. 9d. to 4s. 3d. per lb., and to arrive 3s. 10d. c.i.f. is asked.

QUICKSILVER.—Quotations have remained abnormally wide, which might be regarded as an indication that there is not much disposition on the part of first-hands to go further in the matter of concessions, possibly on account of the fact that no important arrivals have so far been announced this month, while the imports last month

turned out exceedingly small at only 236 bottles, compared with 5,062 bottles for the same month last year. The total for eight months, at 27,205 bottles, was only slightly less than in 1919, although comparing with 42,019 bottles in the corresponding period of 1913. There is very little doing for export, the recent slackness being emphasised by last month's re-exports being only 331 bottles, while this was in excess of the imports. A little more than one half of our total imports this year was re-exported—namely, 14,734 bottles. The statistical position seems quite healthy, but idle conditions exist. Current quotations range from 181. to 181. 10s. per bottle. 40,000 lb. have arrived from Italy this week.

RESORCIN is easier, pharmaceutical quality offering at 17s. 6d. per lb.

SALICYLATES are weaker, B.P. salicylic-acid crystals offering at from 2s. 8d. to 2s. 9d. per lb. as to quantity. Sodium salicylate can be had at from 3s. 8d. to 3s. 9d. per lb. for powder, but a firm order could be executed at slightly less.

Sarsaparilla.—Fair-sized arrivals continue to take place, and prices tend easier. Genuine grey Jamaica is obtainable at 3s. 6d., Lima-Jamaica at from 2s. 9d. to 3s., and native red Jamaica at 2s. 6d. per lb.

SENEGA.—Spot can be had at 7s. 6d. per lb.

SHELLAC.—The spot market for usual standard TN Orange quality has declined about 10s. per cwt. to 640s., and other descriptions are cheaper to this extent, including fine Orange at 850s.; fine seconds is 700s. to 730s.; pure button, 850s.; AC cakey, 560s.; GAL, 550s.; IG, 500s. Futures are from 25s. to 30s. lower, the sales including October at from 550s. to 525s. to 540s. per cwt.

Soda Salts.—The English makers have advanced the price of Ammonium alkali 58 per cent., owing to the increased railway charges, and now quote 8l. 8s. per ton f.o.r. makers' works, bags free. Soda crystals have also been advanced by makers to 7l. per ton in 2-cwt. bags, f.o.r. at works, and carriage paid U.K. on 5-ton lots. Bicarbonate of soda is 2l. per ton dearer from makers at from 12l. to 15l. per ton, bags free, according to conditions of delivery. Makers' prices of Caustic soda of all strengths are unaltered.

STRYCHNINE.—The makers of "Hulle's" strychnine have further advanced their prices, quoting 1-oz. bottles of crystals at 10s. per oz., and "Hulle's" soluble strychnine in 1-oz. bottles at 9s. 6d. per oz., packed free for export.

SULPHIONAL is about 2s. 6d. per lb. cheaper, importers offering at 37s. 6d. to 38s. 6d. per lb.

TARTARIC ACID is easier, with sellers at slightly under 3s. per lb.

THEOBROMINE is about 1s. 6d. per lb. cheaper, pure alkaloid offering at from 40s. to 41s. per lb., as to quantity. Theobromine sodium salicylate is also lower at 20s. per lb.

THYMOL.—Spot prices are maintained at 47s. 6d. per lb., but to arrive Indian is offered at 42s. 6d. c.i.f.

Turpentine.—The volume of trading has appreciably increased, partly under more optimistic American reports, and the tendency of the premium on contracts into next year has become accentrated. Spot has improved again in value, while holders are more difficult to bargain with since the severe depreciation in the American exchange. The state of the latter is, of course, a very important factor; as may be gathered from the fact that whereas the American price at this time last year was substantially higher than it is now, precisely the reverse is the case on this side. The London stocks are still relatively low at about 16,300 barrels, or a half less than a year ago. Spot closes at 147s. 3d. per cwt., an advance of about 7s. on the week.

Coca Culture in Formosa.

The difficulties experienced in Japan during the war in obtaining supplies of coca were instrumental in experiments being undertaken regarding the prospects of cultivating this plant in Formosa. Some three years ago about 150 acres were planted with coca, and during the past year the plantation was extended by another 360 acres, and the first attempts to prepare cocaine were undertaken. It is

now reported that the results were better than had been expected, and the cultivation of coca in Formosa may be regarded as having proved successful. On an average it was possible to prepare 42 lb, of cocaine per acre of cultivated plant. China is considered as a likely customer, since the use of cocaine as a substitute for the now forbidden opium is gaining ground.

New Zealand Kauri-Gum.

During the year ended March 31, 1919, kauri-gum to the value of 18,847l, was purchased by the Department for the Administration of the Kauri-Gum Industry, while sales amounted to 14,226l. Up to the end of March all gum sold went to America, but since that date several shipments have been made to the United Kingdom. When arrangements are completed and shipping space is available it is probable that a large export trade with the United Kingdom will be established. Early in the year a partial embargo was put on the importation of all fossil resins into the United States of America. As in the previous year, America constituted practically the only market, and how hard this restriction hit the kauri-gum trade may be gauged by the fact that the total export for the year (2,338 tons, valued at 152,299l.) was only about one-half that of the previous year (4,636 tons, valued at 304,852l.), and less than one-third of the pre-war annual export.

Formosan Camphor.

A valuable review of the commercial and industrial developments in the island of Formosa has been written by Mr. P. D. Butler, Acting British Consul at Tamsui, in which he gives the following figures, showing the production of crude camphor and camphor oil in each of the financial years 1914-15 to 1918-19, with estimated figures for 1919-20 and 1920-21:

	C	rude Camphor	Camphor Oil
Year		Kin	Kin
1914-15	 	5.124,894	5,448,834
1915-16	 	4,932,756	5,933,470
1916-17	 	5,208,843	6,808,516
1917-18	 	3,223,249	5,045,634
1918-19	 	2,342,000	4,885,000
1919-20	 	2,200,000	4,200,000
1920-21	 	3,000,000	6,000,000
	 	, -, -,	0,000,000

The estimated figures for production in 1919-20 and 1920-21 have been supplied by the Monopoly Bureau, but they are too optimistic, and it is tolerably certain that the 1919-20 output will be actually much smaller, nor is it probable that the 1920-21 estimate will be realised. It will be seen that the output of camphor shows a serious falling-off each year since 1916-17. The chief cause of this decrease is insufficiency of labour. The Monopoly Bureau are doing all they can to stimulate production, and as a means to that end the price paid to the local manufacturers has been repeatedly raised. Further, a company called the Formosan Camphor Manufacturing Co., Ltd. (capital, 10,000,000 yen), was formed with the support of the Monopoly Bureau at the commencement of 1919 with the same object. This company is an amalgamation of the smaller concerns hitherto engaged in 'the industry. The decrease in the output of camphor came at a most unfortunate time, as the demand in the United States, Japan, and the United Kingdom has increased enormously. No figures are available for the demand for crude camphor in Japan, but that in the United States, France, and United Kingdom is estimated by the Monopoly Bureau at the following figures:

** ** *	~ .		Kın	per annun
United		 		7,800,000
	Kingdom	 		2,400,000
France	v	 *,* *		1,080,000

The Monopoly Bureau finds it quite impossible to meet this large demand, and the actual allotments of crude camphor for the year 1919-20 were as follows: United States, 1,116,000 kin; United Kingdom, 408,000 kin; France, 172,000 kin. The proportion allotted to the United Kingdom and France is somewhat larger than apparent, as both these countries take partly refined or "BB" camphor, which yields 12 per cent. more refined camphor than the "B" grade shipped to the United States. The future of the industry is far from bright, as, apart from the present difficulty in maintaining production, it is estimated that the natural camphor forests will be entirely exhausted about fifteen years hence. From that time on the supply will have to be obtained from afforested trees, and only a very small proportion of these will by then have reached the age of maturity (fifty years) at which the camphor tree can economically be cut.

Java Cinchona and Quinine Exports.

The following figures show the exports of cinchona and quinine from Java by quantities (kilos.) and the countries of destination during the years 1918 and 1919:

To	Cinc	hona	Quinine		
10	1918	1919	1918	1919	
Netherlands Great Britain Italy Greece Canada United States South America Egypt British India Malacea Singapore Hong Kong China Japan Philippines Australia Other countries	Kilos. 744,000 1,156,000 18,000 415,000 107,000	Kilos. 679,000 2,313,000 37,000 — — 1,741,000 — 223,000 — 409,000 — — —	Kilos. 50,835 12,400 40,796 6,472 60,064 23,288 2,049 9,855 25,908 5,988 4,274 8,211	Kilos. 202,235 163,200 5,499 3,024 67,496 3,100 39,016 74,378 1,034 4,609 1,703 8,771 45,055 7,082 11,601 4,225	
	2,440,000	5,402,000	250,140	642,028	

Colombian Economic Products.

Colombian Economic Products.

In the course of a lengthy report on the economic resources of the Cartagena district, the United States Trade Commissioner at Medellin gives the following figures of the exports of forest products from Cartagena in 1918, all of which were gathered by the negroes and natives of the interior, the work extending as far as the headwaters of the Atrato River: Balsam copaiba, 7,365 lb.; canine oil, 11,401 lb.; cedar and mahogany, 1,200,639 ft.; chicle, 86,585 lb.; ipecacuanha, 47,181 lb.; ivory nuts (tagua), 4,063,011 lb.; palm-kernel oil, 65,076 lb.; rubber, (balata), 395,318 lb.; sisal fibre, 20,382 lb.; tannic extract, 733,751 lb. Another product that deserves mention is the nut of the corozo palm. This palm is the same as the "cohune" of Central America, and is found in great abundance throughout the Bolivar plains, and as far west as the Atrato River. There is an unlimited supply of raw material. When pastures are cleared for cattle the corozo palms are left for the gathering of the seeds. The gathering of the nuts presents no particular difficulty. Two harvests are obtained yearly after the palm has reached maturity, which is attained at the age of four or five years. The nuts are very rich in food value, the oil having been used by the aborigines for centuries. The extraction runs about 25 per eent. of pure oil per weight of raw nuts after drying. About 25 lb. of the nuts, which grow in large bunches near the ground, can be expected from each palm annually. The tagua nut is one of the principal articles of export of Cartagena. The chief supply comes from the region of the Atrato River to Cartagena for export, although the Pacific Coast of Colombia exports large quantities also. The forest of Bolivar and the regions of the Sinu and Atrato Rivers, particularly the latter, are rich in medicinal plants, such as ipecacuanha, sarsaparilla, cinchona bark, and many others. There are also several palms which produce gums and varnish material, such as the famous ceroxylon palm, but, so fai In the course of a lengthy report on the economic resources

Japanese Insect-powder.

The present season in the insect flower and powder is inactive, says a Tokyo report of July 12, very few business farms from abroad being reported in the market. A glut is expected to result in spite of the curtailment having been effected by producers this season. Producers have started their campaign for maintenance of their prices. The present season's unfavourable trade was anticipated in the earlier and a great gain was reported in the export value and volume. Particularly in the fall, when Japanese producers were expected to stand for higher prices, buying for foreign points was active, as the following figures show:

Yours. Volume. Value.

Year Kin (1.3 lb.) Yen 1917 ... 2,498,007 1,116,060 1918 ... 5,418,400 3,327,012

It is quite evident that foreign points had much crop on hand at the beginning of this season. Considering the fact The present season in the insect flower and powder is inactive, says a Tokyo report of July 12, very few business firms from abroad being reported in the market. A glut is expected to result in spite of the curtailment having been effected by producers this season. Producers have started their campaign for maintenance of their prices. The present season's unfavourable trade was anticipated in the earlier months of the year. Last year's season was unusually active and a great gain was reported in the export value and volume. Particularly in the fall, when Japanese producers points was active, as the following figures show:

Volume. Value.

1105 11	asa	CULTE,	CO CIT	2 10110	will madres	DATO II I
			t t		Volume.	Value.
Year					Kin (1.3 lb.)	Yen
1917	1				2,498,007	1,116,060
1918			~ 2		2,417,134	984,752
1010	•••				5 418 400	3 327.012

that Japanese exporters have received only a small number of inquiries for small parcels since, they have still old crop on hand. Although the domestic market this season is fairly active, its absorption is insignificant, and the market is menaced with the possibility of a glut. The precautionary steps taken by producers—namely, the heavy curtailment of production—is said by the market to have been a failure. Merchants are accordingly trying to dispose of their crop through the reduction of the price. To stop the reduction however, producers have started their campaign their crop through the reduction of the price. To stop the reduction, however, producers have started their campaign. A circular letter was distributed among merchants. It stated that last year growers in Wakayama and Okayama claimed higher prices on the ground that other kinds of farm produce fetched them better remuneration. Manufacturers were forced to accept their claim. However, all through last season the market was not raised proportionately. Only in the fall was a slight increase amounced. Since the production cost has increased further this season, in view of the condition of the export trade last season's price the production cost has increased further this season, in view of the condition of the export trade last season's price is still maintained. "The market has no ground for its proposal to reduce the price of pyrethrum or insect-powder," says the circular letter.

The Trend of German Chemical Prices.

A peculiar phenomenon has been noticeable for some time A peculiar phenomenon has been noticeable for some time in the German market with regard to pharmaceutical products. While certain drugs still continue to advance in price, others remain stationary, and another group exhibits a marked tendency to decline. As this uncertainty renders the business side of pharmacy a difficult task, one of the German pharmaceutical journals approached a number of the leading German manufacturers of chemical products with a view to ascertaining their opinion regarding the probable course which the prices of their products are likely to follow. We reproduce in the following a brief summary of some of the replies received to this inquiry.

the replies received to this inquiry.

Farbenfabriken, formerly Friedr. Bayer & Co., are of opinion that in consequence of the difficulties in obtaining certain raw materials and the shortage of coal, a decrease in prices, except in the case of a few products, is scarcely likely to take place. The decline in prices in some articles, which in certain instances are lower than factory quotations, are principally due to compulsory unloading, or dictated by fear of losses. The advance in price is often not attributable to an increase in the cost of the article itself, but is brought about by the increased charges for packing material, which is often an important factor. Under the existing circumstances it is impossible to form any definite opinion as to the future development of prices for chemicals and medicaments. and medicaments.

and medicaments.

E. Merck, Darmstadt, considers it to be impossible to make any definite statement regarding prices in the future. The improvement in the value of the mark facilitated the purchase of raw materials from abroad, but at the same time it led to the sale of stocks of chemicals held by certain persons. The increased cost of production, resulting from the ever-increasing demands for higher wages, leads to an advance in the price of raw materials, coal, and packing materials, and consequently a reduction in prices is not likely unless there is a change in the value of the German currency and in the present scale of wages which would permit a more favourable calculation of prices.

The Dye Works of Höchst state that it is impossible to

The Dye Works of Höchst state that it is impossible to foresee the future development of prices for the more important of their products. The ever-increasing cost of production, in salaries, wages, and raw materials, and more especially the coal question, make it impossible to foresee future prices, and in their opinion there is no likelihood of a decline in the immediate future.

of our former enemies to thwart German purchases, and to use every endeavour to ensure that supplies of raw materials for Germans are only obtainable under the most unfavourable conditions." Under the circumstances pharmacists are advised to lay in only sufficient stocks to carry them over the next few months.

Brückner, Lampe & Co. write that it must be borne in mind that to-day prices are no longer regulated by the relation between supplies and demand. There are other factors which make it impossible to foretell the future development of prices, such as a sudden demand from abroad, the supply of coal to factories, the question of the future condition of wages, economic and financial matters, strikes, the rate of exchange, the supply of raw materials—these are all factors which influence prices. Consequently the present situation presents a number of pitfalls for both commerce and industry, as it is impossible to deal on the basis of established rules for fixing prices, but one has to reckon with a number of unforeseen and unexpected circumstances, which may bring in their train from one day to the other serious losses on the goods held in stock.

From all the replies received it is apparent that the position of the German currency is regarded as the main factor in determining future prices, coupled with the question of wages, which in turn is also influenced by the value of the mark, inasmuch as this factor also has a repercussion on the price of foodstuffs, of which a very large proportion has to be imported. Brückner, Lampe & Co. write that it must be borne in

Arrivals of Drugs, Chemicals, etc. The following products have arrived at the ports named:

Manchester

Anachester

(August 16 to September 6).

Acetic acid (N.Y.), 16 drms.

27 brls.; anhyd. ammon.

(R'dam), 20 cyl.; barytes

(U.S.), 97 brls.; betanaphthol (N.Y.), 74 brls.; chemicals, not described (Hamburg), 155 cks.; calc. acet.

(N.Y.), 405 bgs.; cream of tartar (Fr.), 198 cks.; dimethylaniline (N.Y.), 93

drms.; emetic tartar, (Fr.)

10 pkgs., (Antw.) 7 brls.;

formaldelyde (N.Y.), 465

brls. 30 drms.; hypophosphites (N.Y.), 108 cs.; lactic acid (Hamburg), 50 brls.;

liquorice (Fr.), 10 cs.; oxalic acid (R'dam), 20 cks.; resin (U.S.), 250 brls.; soda nit. (Fr.), 19 cks.; soda nit. (Fr.), 19 cks.; soda nit. (Fr.), 19 cks.; stiphur (U.S.), 267 sks.; tannic acid (Can.), 45 brls.; tar-(August 16 to September 6).

taric acid (Fr.), 28 cks.; wax, paraffin (U.S.), 344 brls. 1,072 bgs.

Hull

(August 14 to September 6).

rytes, (Hamb.) 45 cks.; (Antw.) 100 bgs., (Bremen) 438 cks. (Sp.) 400 bgs.; chemicals (Fr.), 12 cks.; cobalt sulphate (Hamb.), 10 cks. cottonseed (Alex.), Barytes cobait sulphate (Hamb.), 10 eks. cottonseed (Alex.), 2,278 tons; linseed (B. Aires), 6,726 bgs.; manna (Sić.), 5 es.; methyl aleohol (N.Y.), 53 drms.; olive oil (Malaya), 190 brls.; oxalie aeid (Hamb.), 34 eks.; palm-kernels (W. Af.), 41,085 bgs.; potash (Swc.), 108 brls.; potash (Swc.), 108 brls.; cots (Sr.), 108 brls.; roots (Fr.), 45 bls.; soda ash (N.Y.), 2,167 bgs.; sulphur (Sie.), 133 brls. 2,234 bgs.

London

(September 6 to 13).

Alcohol, wood, (Newport News) 80 drms., (Montreal) 120

Alcohol, wood, (Newport News)
80 drms., (Montreal) 120
drms.
Aniline dyes, (Cologne) 10
pkgs., (Ostend) 39 pkgs.;
indigo, (Cal.) 50 es., (Basra)
18 es.; indigo, synthetic
(R'dam), 37 brls.
Bismuth orc, (H. Kong) 28
pkgs., (Sydney) 394 bgs.
Cascin, (N.Z.) 150 sks., (B'bay)
131 bgs., (Denm.) 132 bgs.
Chemical products, not
described, (Antwerp) 18 eks.,
(Osaka) 20 es., (Amst.) 34 es.
Acetic acid (R'dam), 102 cbys.
33 eks. 80 pkgs.
Alum, chrome (Go'burg), 40 es.
Antichlor (R'dam), 100 kgs.
Arsenic (Beira), 21 cks. 10
drms.
Barytes, (Hamburg) 30 eks.,

arms,
Barytes, (Hamburg) 30 eks.,
(Antwerp) 400 bgs., (Bremen)
295 eks.
Benzoic acid (Amst.). 20 brls.
Bromine, liquid (Hamburg),
668 es.

668 cs. Cream of tartar, (Sp.) 50 pkgs., (Fr.) 70 brls. lehthyol (Yokohama), 10 cs. Lead acetate (Amst.), 21 cks. Magnes, chlor. (R'dam), 8 (Sp.) 505

brls. Oxalic acid (R'dam), 12 eks. Potash chlorate (Rouen), 200

Potash nitrate (Hamburg), 21 cks. Potash salts. (Hamburg) 4 cks.. (Amst.) 200 bgs. 50 eks., (R'dam), 200 bgs. Sal ammoniac (Antw.), 16 brls. Saltpetre (Cal.), 922 bgs. Soda benzoate (Paris), 11 brls. Soda caustio (Yokohama), 70 brls.

bris.
Soda nitrate (Chile), 50,602 sks.
Soda phosphate (Autwerp),
110 pkgs.
Soda salicylate (Paris), 20 cs.
Soda sulphate (Yokohama), 120
drms

Soda sulphate (10kohana), 120 drms.

Tartar, (Sp.) 226 bgs. 60 brls., (Fr.) 145 bgs.
Thorium nitrate (Havre), 8 cs.

Thorum nitrate (Havre), 8 cs.
Drugs, crude, etc.: Roots.
(Marseilles) 27 bls. (Alicante)
21 bgs., (Ghent) 5 bls.,
(Boulogne) 10 cs.; herbs,
(Marseilles) 27 pkgs.,
(Boulogne) 17 pkgs.
Aconite root (Kobe), 30 bls.
Balsam, Canada (Montreal),
4 cs.

Aconite root (Kobe), 30 bls.

Balsam, Canada (Montreal),
4 cs.
Cardamoms (Cey.), 44 cs.
Cod-liver oil (Amst.), 50 cs.
Cubebs (Amsterdam), 20 bgs.
Ergot (Lisbon), 43 bgs.
Galls (Basra), 1,117 bgs.
Henbane (P. Said), 7 bls.
Liquorice-root (Sp.), 112 bls.
Menthol (Jp.), 50 cs.
Nux vomica, (Cal.) 660 pockets,
(Marseilles) 125 pkgs.
Opium (Basra), 5 pkgs. 15 cs.
Vanilla (N.Z.), 8 cs.
Dyeing, tanning extracts, etc.:
fustic (W.I.), 50 tons; indigo
(Basra), 18 cs.: logwood
(W.I.), 92 tons; wattle-bark
(Kilindini), 878 bls.
Egg-oroducts (Shai), 112 cs.; egg-yolk
(Ch.), 126 eks:
Fusel oil (Sp.), 4 drms.

Glaxo (N.Z.), 6,652 cs. 384 tins. Glucose, (Havre) 582 sks., (Ghent) 508 bgs. Gums, resins, etc., not described (Basra), 368 cs. 252 bgs. 38 pkgs.; aeacia, (P. Said) 100 bgs.; eopal, (S'pore) 350 cs., (Paris) 220 bgs. 6 cks.; copal (Paris). 470 sks.; damar (Amst.), 64 cs.; kauri (N.Z.), 275 sks. 180 cs. 218 pkgs.; sandarae (Mogador), 128 bgs. 35 brls.; yacca (Antwerp), 919 bgs.; shellae (Cal.), 200 cs. 202 pkgs., garnet 200 cs., button 165 cs. 25 bgs.
Honey, (Jam.) 96 cks., (Boulogne) 33 cks.; (Paris) 9 pkgs. Kieselguhr, (Bremen) 92 bgs., (Hamburg) 440 bgs.
Lithopone (Antwerp), 490 brls. 100 cks.
Magnesite, (R'dam), 250 bgs.,

100 cks.
Magnesite, (R'dam) 250 bgs., (Amst.) 230 cs.
Oils, essential: Eucalyptus (Melbourne), 220 cs.; lemongrass (Cochin), 7 drms.; mustard (Calcutta), 200 drms.; anise, star (H. Kong), 50 es.; mint (Japan), 350 cs.; otto of rose (Amst.), 5 cs.; turpentine, (B'deaux) 325 brls. 564 cks., (Antwerp) 500 brls., (U.S.A.) 6,672 brls., (Lisbon) 730 cs.
Oils, fixed: Coconut (Cex)

730 es.
Oils., fixed: Coconut (Cey.),
342 pkgs. 93 pps. 18 puns.;
fish (Jp.), 400 cs. 1,131 brls.
471 pkgs.; ground-nut (Jp.),
30 cks.; rape (Jp.), 3,000 cs.;
soya (Jp.), 2,000 cs.; olive
(Marseilles), 21 cs.; wood
(S'ghai), 60 cks.
Resin, (Bordeaux) 459 cks.,
(Antwerp) 499 brls., (U.S.)
1,000 brls., (Lisbon) 33 cks.
26 brls.

(Antwerp) 499 brls., (U.S.)
1,000 brls., (Lisbon) 33 cks.
26 brls.
Seeds: Almonds, (Sp.) 1,813 cs.,
(Mor.) 7,946 bgs.; canary,
(Sp.) 100 bgs., (R. Plate)
1,008 bgs.; copra, (N.Z.)
122 sks., 1,105 bgs., (Cev.)
20,804 bgs., (Zan.) 675 bgs.,
(Sydney) 3,364 sks.; cotton
(Havre), 477 bgs.; groundnuts, (Dar-es-Salaam) 2,230
bgs., (H. Kong) 574 bgs.;
(Cal.) 17.076 bgs.; poppy
(R'dam), 635 bgs.,
(Cal.) 17.076 bgs.; poppy
(R'dam), 63 bgs.,
(Zan.) 63 bls.;
cinnamon chips (Cev.), 69
bls.; cloves (Zan.), 597 bls.;
ginger (Jam.), 124 bgs. 5
brls.; pepper (Antw.), 44 bgs.
Wax, bees'. (Jam.) 2 brls.,
(Zan.) 65 bdls., (Havre) 90
bgs.

bgs.

bgs. Wax, paraffin (U.S.), 4,477 brls.; scale, 343 brls. 891 tons. Wax, vegetable (Kobe), 100 cs.

Liverpool(September 5 to 11).

Antimony oro (Chile), 250 bgs.
Barytes, (Antw.) 400 bgs.,
(Barcelona) 1,300 brls.
Bismuth ore (S'ghai), 478 bgs.
Chemical products, etc.:
Argol (Messina), 32 cks.
Arsenic (Seattle), 620 brls.
Betanaphthol (Seattle), 6 brls.
Cale. acetate (Boston), 4,271
bgs.

bgs.
Cale. borate (Chile), 6,455 bgs.
Cream of tartar (Barcelona),
135 brls. Formaldehyde (Boston), 112

Potash bichrom. (B'bay), 32 Potash muriate (R'dam), 500

Potash muriate (R'dam), 500 bgs.
Saltpetre (B'bav), 400 bgs.
Soda bichrom. (N.Y.), 34 cks.
Soda chlorate (Rouen), 100 cks.
Soda nitrate (Chile), 32,109 bgs.
Tartar (Fr.), 180 bgs.
Drugs, medicines, etc.: (Havre)
92 pkgs. (Const'ple) 14 cs.:
roots (Fr.), 20 brls.: Fellows'
syrup (N.Y.), 510 cs.

Coca-leaves (Colon), 221 bls.
Liquorice-root (Fr.), 46 bgs.
Poppy-leads (M'seilles), 43 bgs.
Quillaia (Chile), 126 bls.
Sarsaparilla (Colon), 29 bls.
Dyes, dyeing and tanning
materials, etc.; Gutch, 320
cs.; gambier (S'ghai), 256
cs.; hematine crystals (U.S.),
215 brls.; orchella-wed,
32 bls.; Prussian blue
(Antwerp), 10 cks.
Egg-produets: Moist egg-yolk
(Ch.), 769 cks.; liquid henyolk (Ch.), 769 cks.; liquid henyolk (Ch.), 109 cks.
Farina (Jap.), 2,520 bgs.
Gums, resins, etc.; Copal
(Antwerp), 722 bgs.
Lime-juice (Jam.), 12 puns.
Lithopone (Antwerp), 425 cks.
Oils, essential: (Malaga) 12
brls., (Messina) 11 cs.,
(Marseilles) 190 cs.; turpentine (Fr.), 55 drms.
Oils, fixed: Cod (Sydney), 118
cks.; ground-nut, (Jap.)
11,060 cs. (S'ghai) 594 brls.;
olive (Malaga), 30 brls.;
palm (W. Af.), 1,130 eks.;
seal (Sydney), 1,182 cks.;
shark (Jap.), 1,000 cs.
Seeds: Almonds (Sp.), 780 bxs.
775 cs. 200 bgs.; castor
(Brazil), 300 bgs.; costor
(Brazil), 300 bgs.; costor
(Brazil), 300 bgs.; costor
(Brazil), 300 bgs.; costor
(Brazil), 300 bgs.; groundnuts (W.C. Af.), 3,377 bgs.;
palm-kernels, (B'deaux), 177
bgs.
Wax, carnauba (Brazil), 148

Wax, carnauba (Brazil), 148 bgs. Wax, paraffin (N.Y.), 200 brls.

Manchester (September 6 to 10).

(September 6 to 10).

Aniline oil (N.Y.), 40 drms.; betanaphthol (N.Y.), 116 brls.; calcium phosphate (U.S.), 69 brls.; dyewood ext. (U.S.), 377 brs.; formaldehyde (N.Y.), 375 brls.; lithopone (Belg.), 75 cks.; paraffin wax (U.S.), 1,043 brls.; phosphorus (U.S.), 500 cs.; soda acetate (Antw.), 40 cs.; soda biehrom. (B'more), 15 cks.; soda chlorate (Rouen), 100 cks.; soda phosphate (Antw.), 52 brls.; sulphur (Galveston, U.S.), 5,300 tons; syrup of figs (U.S.), 6,000 cs.

Hull

Hall

(September 4 to 10).

Acetie acid, (U.S.A.) 309 brls.,
(Holland) 1,500 cks. 400
pkgs.; acetone (N.Y.), 5
drms.; alcohol, butyl (B'bay),
320 drms.; alcohol, wood.
(N.Y.), 112 drms.; aniline
dyes, (R'dam) 54 brls, 2 cks.
1 kg., (Antwerp) 439 pkgs.;
barytes, (Bremen) 181 cks.,
(Belg.) 485 bgs.; caleium
carbide (Montreal), 1,500
drms.; chrome ore (Karachi),
900 tons; cod-liver oil
(Norw.), 340 brls.; drugs
(Antwerp), 15 bdls.; essential
oils (Catania), 42 cs.; farina
(Harlingen), 1,015 bgs.; gum
acacia (P. Sudan), 2,918
bgs.; seeds: linseed (E.I.),
15,138 bgs.; castor, 4,511 bgs.;
jamba, 9,943 bgs.; cotton,
59,622 bgs.; lithopone (Belg.),
235 cks. 16 brls.; soda nitrate
(Dunkirk), 154 cks.; soya
beans (Dalny), 47,813 bgs.;
sulplur (Catania), 1,320 bgs.
67 cks.; zinc oxide (Belg.),
10 brls.

Grimsby (September 4 to 10).

Grimsby
(September 7 to 10).
Dyestuffs (R'dam), 494 pkgs.

Goole

(September 7 to 10). Acetic acid (R'dam), 42 cbys.; dyestuffs (R'dam), 12 cks.; farina (Amst.), 350 bgs.; magnesite, 320 bgs.



The Latin for Syrup of Figs.

SIR,—Why "syrupus ficuum"? We do not say "syrupus violarum" or "syrupus papaverum." Surely the preparation ought to be called "syrupus ficus com-'-Yours faithfully, L. (12/9.)positus.

SIR,—As one who has passed Apothecaries' Hall, Minor that yet another wholesaler lists syrup of figs as "Syrupus Ficarius," making it appear a most irregular noun. wonders what prompted another prominent wholesale firm, at this point in its list, to forsake the Latin nomen-clature adopted and call it "syrup of figs."

Yours truly S. P. SAYERS.

Hendon, N.W.

Apothecaries' Assistants' Examination.

SIR,-As one who has passed Apothecaries' Hall, Minor and Major examinations within the last few years, and has also trained nearly 100 candidates for the Apothecaries' Hall examination, I have been very interested, and not a little amused, at the accounts given by your two correspondents of their experiences. The collège I was at probably gets a higher percentage of passes for the Minor than any other, about 66 per cent., yet for the Apothecaries' we usually get about 5 per cent. through the first time. In fact, in spite of the long lists of passes published, I make bold to say that not one in ten passes at first attempt. Why? In the first case because the state of affairs told by your first contributor (C. & D., August 21, p. 74) is only too true, especially if one happens to be towards the end of an examination day. Secondly, and more important, is the stringency of the examination in practical dispensing, for whereas in the Minor, even if a candidate makes a slight slip or two, if he does a good paper on the whole he passes, in the Apothecaries' nothing is overlooked apparently. One candidate even complained that she failed because the label was not stuck on the bottle, although she had written it when time was called. Your correspondent, Miss J. Murchie, is indignant at a protest that three-quarters of an hour for two prescriptions is not long enough. I should like to meet an examiner, much less an Apothecaries' examination student, who could guarantee to dispense a batch of suppositories (without the aid of ice) on a summer's day in the time without taking notice of the other prescription, or syrupus ferri iodidi either, without such unofficial subterfuges as using ferrum redact, or filings, and I believe two fluid ounces have been ordered. Why, it would take a mathematician ten minutes to work the calculation alone. Again, one candidate professed to have had the following prescription:

Chloral hydras et camphor Mitte 3ij. fluid.

Who among your readers could dispense this without guessing or some waste? Another point, no British Pharmacopæia is provided, and such things as seidlitz powders are expected to be made from memory, also drugs have frequently been ordered by unofficial synonyms. I remember well when twenty-three students from one college alone failed because they did not know what croton chioral hydrate was. If such a case occurred with the Minor a candidate would be given Squire or Martindale if he asked for it. Your contributor mentioned being asked how many persons his (or her) pills would kill? I asked now many persons his (or her) pins would kin. The remember being asked by Dr. Warner the following two (and only two) questions: (1) How much strychnine would it take to kill a cat? (2) What is ergot? (My answer: A fungus, Claviceps purpurea, etc.). Is it a fungus or A fungus, Claviceps purpurea, etc.). Is it a fungus or fungi? In conclusion, I say definitely that it is harder to pass the Apothecaries' Hall examination in dispensing than the Qualifying examination in the same subject.

Yours faithfully, Ph.C., F.C.S. (13/9.)

Proprietary Medicines Bill.

Sir,—In the course of "Xrayser II.'s" able criticism of certain aspects of the Proprietary Medicines Bill, it is urged that chemists and manufacturers should go the whole "hog" and demand "free registration." Why should owners be compelled to register, and then have to pay a fee for so doing? On the face of it, the registra-tion fee is simply an attempt to "bleed" the manufacturers in order to carry out a transfusion of capital with which to keep alive an "army of highly paid officials." Surely enough is already paid in medicine-stamp duty, and no other trade would tolerate such "unjust taxation." Should this clause of the Bill be accepted lying down, a vast amount of hardship will be forced upon an honourable occupation, and, as usual, will hit the small trader most severely. If the whole of the owners were to unite and refuse to accept the registration-fee clause, the pioneers of the Bill would certainly be compelled to modify their attitude. No milk-and-water policy will avail. Desperate ills require desperate remedies. Yours truly,

REVENUE STAMP. (11/9:)

Mist. Simarubæ et Granati.

SIR,-A prescription which appears to have originated with the tropical diseases clinics of the Ministry of Pensions in the London region is going the rounds. Boots, Ltd., have the contract for the supply of all prescriptions to the Ministry in London, and have the mixture in stock at most of their branches. The formula is similar to the one referred to by "Another Irish Doctor" in his letter on "Drugs and Dysentery (C. & D., August 28, p. 73), with the exception that cunamon is substituted for the gum acacia of Sir Patrick Manson's famous prescription. The formula is:

Pulv. simarubæ, Pulv. corti granati, Pulv. cinnamoni ... Aq. ad aa. partes 1,000 M.

Ft. decoct. Boil to half volume.

understand from pensioners who are taking it that the compound is giving excellent results, and goes some way towards the solution of the problem of treatment of this disease indicated by your correspondent.

Yours faithfully, Qui Hai. (11/9.)

Notes on Catheters.

SIR,—Your note in the C. & D., September 11, p. 76, on catheter varnish suggests a few remarks on other points connected with these instruments. salient feature of modern so-called cylindrical catheters is the funnel end (which I first met with in Germany some fifteen years ago), introduced, 1 suppose, to facilitate the washing-out of the bladder. Even for this purpose it is not necessary, as the bladder can be washed out quite as easily without it-in fact a syringe can be more accurately fixed in a large-sized catheter without the funnel-end than with it-while for the purpose of emptying the bladder the funnel-end is a mistake. checks the flow considerably, probably by causing an opposite current of air. However this may be, there is no doubt of the fact that the funnel-shaped instrument does not empty the bladder so quickly as a purely Another objectionable feature in many cylindrical one. catheters is the broadness of the eye, which should be long and narrow. I have seen catheters with eyes so broad that their edges are apt to scrape the urethra, the catheter itself being broadened at this point to allow Yours truly, room for them. SENEX. (13/9.)

Cold in the Head.

SIR.—At this season of the year the commonest ailment is undoubtedly "a cold in the head." I suppose there is scarcely a chemist who, since the advent of the recent rapid changes of temperature, has not been asked for some kind of remedy for this complaint several times daily. It is one of the more distressing of minor maladies, and if only taken in time is very readily cured.

pharmacists, and indeed by no means all modern physicians, appreciate the value of opium in the early stages of the various forms of catarrh. The Indian shikari (sportsman) knows it, and when he has been paddling about in a snipe iheel (bog) all day he adds an opium pill to his "nightcap" before going to bed. If a patient comes in complaining of "snuffles" and feeling "rough in the throat," give him half a grain of opium and five grains of quinine, and the betting is twenty to one you will have a score of his friends in during the next month for your wonderful cold cure. So soon as the nose begins to discharge, commence douching it out with one part of glycerin thymol co. B.P.C. to five of warm water three times a day. If the treatment is started promptly the customer will be free from his cold in twenty-four hours. When the sufferer is so situated that he eannot douche out his nose the next best thing is to apply an antiseptic contment to the inside of the nostrils. My formula is:

Menthol ... gr. iv. ... gr. viij. Thymol Acid. boric.
Ol. pini sylvestris 3j. mxl. ... Paraffin, moll. alb. ad ... 3j.

M. Ft. ung.

Apply on little finger to inside of nostril as high up as possible. Repeat every two hours, and insert a liberal supply before retiring for the night.

In my experience einnamon is not much good except in Ferrier's snuff and the numerous powders of that type are useless, as they do not reach the affected part of the Yours sincerely, An Indian Physician. (14/9.)

The Living-in System. Sir,—The living-in system is one which is largely disappearing, especially in the chemist's business. When I first left school it was suggested that I should be apprenticed to a relative who had a business in the country, but while negotiations were proceeding I myself that the venue fallow already. had been exchanging views with the young fellow already indentured, and had discovered that one of the rules of the house was that after business hours the indoor men were compelled either to go out or go to bed, the gentleman's wife objecting to associate with shop assistants. man's wife objecting to associate with shop assistants. To the surprise of my relatives, I flatly refused to go there, and eventually was fortunate enough to find a position where I could live at home and go to work daily. This snobbish attitude has possibly disappeared in these more democratic days, but the experience made such an impression on my youthful mind that I never took an imdoor berth, and, although I may have missed some comfortable places. I have certainly been saved a good many unpleasant situations to judge by the confidences. many unpleasant situations, to judge by the confidences of other assistants. At the same time, living in, if properly conducted, should be very beneficial to a young man thrown on his own resources for the first time, and who possibly, for want of congenial company in lodgings, might find worse acquaintances in the street; and also from a pecuniary point of view he might be better off in these days of high prices. The employer was, doubtless, an apprentice and assistant himself originally, and there is no reason why a youth who behaves himself decently should not be treated as one of his own household.

Yours faithfully, OUTDOORS. (11/9.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Aska Manufacturing Co.

The Chemists' Defence Association, Ltd., 113 Temple Chambers, London, E.C. 4, ask if any C. & D. reader can oblige with the address of John Howlett and H. Garrett, proprietors of the Aska Manufacturing Co., late of 7 Park Road, New Cross, London, S.E. The firm, who offered to supply bottles, are not to be found at the address given.

Legal Queries.

- J. F. (24/8).—A preparation containing oxalic acid is a poison within the meaning of Part II. of the Poisons Schedule.
- R. R. K. (8/9).—Sheep-dips containing arsenic must be registered under the provisions of the Arsenic Act. See C. & D. Diary, 1920.
- H. J. J. (5/9) understands that a person who holds premises under a full repairing lease is entitled to claim a reduction, not exceeding 25 per cent., in the amount of the rates payable in respect of the premises. Is this so? [No such reduction is allowed.]
- F. T. R. (31/8) returned some empty sacks, by rail, which were not received by the consignee. The railway company refuses to accept any liability because the claim in respect of the loss was not made within the period of fourteen days mentioned upon the consignment note. Is this defence valid? [The Courts uphold the validity of the clauses in railway companies' consignment notes requiring claims to be made within specified periods.]

Esprit de Corps (7/7).—By Section XVI. of the Pharmacy Act, 1869, an executor, administrator, or trustee of the estate of a deceased chemist may continue the business so long as it is in charge of a qualified person. The said executor can take a qualified person as a partner, and can use the titles of chemist and druggist, etc., and enter into a contract with the Insurance Committee to dispense for insured persons. The method of forming such a business into a limited company has advantages. Particulars of the process of registration are given in *The Chemist and Druggist Diary*. When a company is formed to carry on that part of a chemist's business so far as it relates to selling poisons, a qualified chemist ("super-intendent") must be in control and must have been registered as such with the Pharmaceutical Society. If the company uses the title "chemist," the superintendent must be a director.

Dispenser (6/9) contemplates entering into an agreement with his manager under which the latter is to be paid half the yearly profits of the business, and also 31. per week. The manager is to deposit 2001. with "Disper week." penser," which amount is to be refunded upon the termination of the engagement, or deducted from the purchase price in the event of the business being sold to the manager. Would an agreement of this nature be valid if stamped with a 6d. stamp? Also would the manager's share of the profits be deducted before arriving at the excess profits duty payable, or would the authorities decline to allow the deduction upon the ground that the manager is a partner? [If no seals are affixed to the proposed agreement a 6d. adhesive stamp, to be signed across, should suffice. We think that for the purpose of excess profits duty deduction of the manager's half-share would not be allowed.] would not be allowed.]

F. N. (6/9) has a shop on a twenty-one years' lease at 85\(\ell\) a year. He has also a private house held on a lease for sixty-nine years, subject to a ground-rent of 10\(\ell\). a year. He says that the private house is assessed at 45l., and that he pays income tax on that sum, and also on the 101., and he asks what deductions in respect of repairs, etc., he is entitled to make for his income-tax return. [First as to the shop. If the rent of 85% is a full rent he would in the ordinary course be assessed on that sum, and he is entitled to deduct from the gross assessment the cost of all ordinary repairs, painting, etc., as distinct from improvements. Of course, if the shop premises are used for business purposes only the whole rent may be deducted as a trade expense when the return of profits from the business is made. As regards the private house, there must be some mistake, as the assessment for Schedule A ought to include the ground-rent, and the tenant in paying this ground-rent should deduct income-tax at 6s. in the pound on it, and pay this over to the authorities. The allowance for repairs, painting, etc., on the private house is one-sixth of the assessment of the premises.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

D. H. (11/8).—There is no legal status for an optician, nor any limitation on the use of optical titles. It is advisable for those who intend specialising in optical business to take the optical examinations, but these are at present quite optional.

E. J. (6/9).—Sulphoricinates.—We gave the method of manufacturing sulphoricinates—i.e., Turkey red oil—in the C. & D. Diary, 1919, p. 91. You probably have this volume by you and can readily refer to the formula.

Alpha (2/9).—Powdered Formalin, recommended as a new remedy for killing mosquitos, is probably paraform. It may, however, be a powder, such as infusorial earth, containing a small proportion of formalin solution.

R. M. H. (28/8).—Itrosyl ordered in the formula for Indian brandy is a concentrated solution of ethyl nitrite, supplied by Fletcher, Fletcher & Co., Ltd., Holloway, London, N., for converting into spirit of sweet nitre.

Nox (6/8).—Grease-paint Remover.—This sample is entirely soluble in petroleum ether and contains no saponifiable fats. It appears to be simple white soft paraffin, probably the variety consisting of very soft paraffin with a harder paraffin, perfumed with rose.

W. H. R. (14/9).—Ung. Bellad., B.P. 1867.—The formula is as follows:

Extract belladonna 80 grs. Prepared lard 1 oz.

Rub the extract smooth with a few drops of distilled water, then add the lard and mix thoroughly. The ext. bellad, referred to is the green extract.

Hospital (11/9).—Benzidine, used as a test for blocd, is a grey crystalline powder soluble in alcohol. The specimen supposed to contain blood is mixed with a little hydrogen peroxide, a few drops of acetic acid, and then with benzi-dine solution (1 per cent.) when a blue to green colour develops. Benzidine is also supplied in tablets with sodium perborate in place of hydrogen peroxide, and just before use the tablet is dissolved in glacial acetic acid.

- P. H. G. (4/8).—Water-softening Powder.—This sample, consisting of two powders marked "A" and "C," has been submitted for comparison as to their water-softening and bleaching properties. Both powders consist chiefly of a mixture of sodium carbonate with a fair proportion of sodium silicate, but silicic acid separated from "A" was much denser than that from "C." Both powders appear to contain some potassium salt. Chlorates, hypochlorites, phosphates, borax, and other ingredients commonly used for water-softening and bleaching were absent from both powders. The same water treated equally with the two powders was a trifle softer after treatment with "C" than with "A," but the advantage of "C" is only slight. In neither case was the water treated capable of affecting the colour of very dilute litmus whether in alkaline or acid solution, so that the bleaching properties appear to be problematical. has been submitted for comparison as to their waterproperties appear to be problematical.
- E. F. M. (7/9). The full text of the Dangerous Drugs Act was printed in the C. & D., September 4, p. 71.
- E. O. M. (13/9).—There is a chapter on perfume compounding in "Pharmaceutical Formulas," in which are given the composition of a large number of perfumes.
- H. B. S. (13/9).—BLEACHING TRIPE.—The English method of tripe-dressing, which includes bleaching, is as follows: Take three buckets of boiling water and add a little soda (sodium carbonate) and one pail of cold water in a tub. Throw the tripe into this and stir with a stick until all the dirt comes off. Take the tripe out of the tub, hang it on a hook, and scrape with a very blunt knife until it is quite clean. Now rinse the tripe well in fresh cold water, then place it into a copper with about

5 gals. of water. Add 2 oz. of alum to the water and boil until the tripe becomes quite tender. Remove from the copper and place in a stream of fresh cold water or into a large quantity of water, with frequent stirring. When it is quite cold take it out and remove the thin inside skin and also trim it. Then place the tripe in a bath of cold water containing 10 per cent. of bisulphate of lime, and remove for sale or use.

A. & N. (11/9).—Removing Aniline Marking-ink STAINS.—Apply an acidulated solution of potassium permanganate, followed by hot oxalic-acid solution or sulphurous acid. Finally, well wash the fabric.

I. A. C. (9/9).—Silicol is iron silicide or ferro-silicon. When added to a solution of caustic soda it evolves hydrogen.

C. P. (27/8).—Refrigeration.—The following are books on the subject: Wallis-Taylor's "Refrigeration, Coldstorage, and Ice-making" (10s. 6d., Lockwood); Williams's "Mechanical Refrigeration" (Whittaker). We published an article on the subject in the C. & D., April 25, 1908, p. 641, but that number is out of print. The ammonia process is employed in chemical works for the manufacture of ice, and is considered the most the manufacture of ice, and is considered the most economical.

J. S. (12/7).—VITAMINES.—The best résumé of present knowledge of accessory food factors is that given in Report No. 38, Medical Research Committee, "On the Present State of Knowledge Concerning Accessory Food Factors (Vitamines)" (Stationery Office, 4s.). Oppenheimer, Son & Co., Ltd., publish a pamphlet on the subject which you will find useful.

W. B. W. M. (9/7)—(1) Worm Syrup without S'ANTONIN:

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Misce. Dose: Under one year, half a teaspoonful; from one to three years, one teaspoonful; from three to six years, two teaspoonfuls; above that age, three teaspoonfuls. To be given every other morning fasting.

(2) Rennet.—Cheese rennet is a concentrated liquid rennet. It could be diluted to make ordinary liquid rennet for preparing junket, the strength being adjusted so that two to three teaspoonfuls is needed for a quart of milk.

(3) "Electric Liniment."—The formula you refer to should read

Rad, anchusæ ... Pulv. capsici Ol. terebinth. Macerate seven days, filter, and add-Oj. Ol. camph. ess. Ol. sassafras 3J. ... Ol. origani ... Methyl. salicyl. • • • . . . Ft. lin.

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Reprinted from "The Chemist and Druggist," Sept. 15, 1870.

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The British Pharmaceutical Conference has inaugurated a most successful meeting at Liverpool this day (September 13). Many new friends are here, and Liverpool holds cut the hand of fellowship, and shakes ours most heartily. We miss some of our most popular comrades, among whom we may mention Messrs. Brough, Deane, Hanbury, Hills, Morson, and Schacht. Those only who have attended former gatherings know how great is the gap, both in a scientific and social sense, which the absence of these gentlemen makes among us. That two of these were absent through ill-health is on every hand regretted. The dinner at the Adelphi Hotel this evening (Tuesday) was most successful. It was attended by about 100 gentlemen. The chief and most touching incident of the evening was the transmission of a telegraphic message to the American Pharmaceutical Association, holding its meeting at Baltimore simultaneously with our own.

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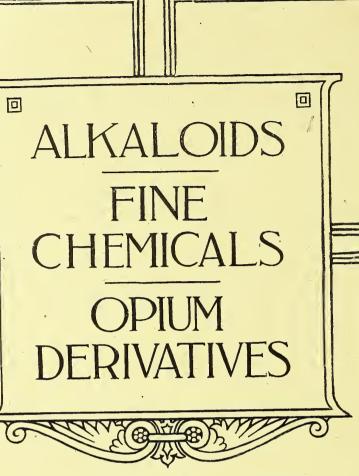
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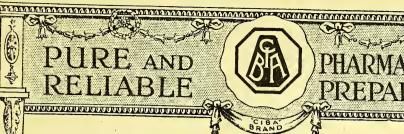
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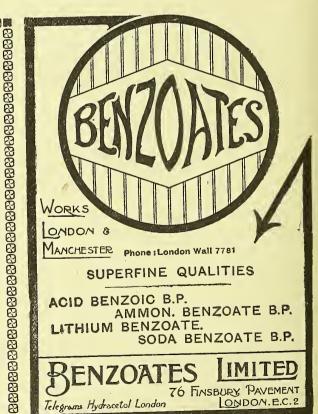
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Ouicksilver

Quinine Salts

Rhubarb

Saccharine

Safrol Saffron

Salicylic Acid

Salicylate of Soda

Salol

Saltpetre

Santonine

Sarsaparilla

Senega Root

Senna

Spermaceti

Starch

Stramonium

Strychnine Salts

Sugar of Milk

Sulphate of Copper

Sulphur Flowers

Precipitated

Roll

Sulphonal

Tannic Acid

Tartaric Acid

Thymol

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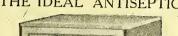
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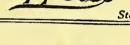
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"Gabail," Valerianate with Strontium Bromide and Syrup of Orange.

ENDOCRISINES.

Organotherapy Extracts of Internal Secretory Glands prepared in vacuo at freezing-point.

Tested as per L.G.B. Regulations.

GALYL.

Salvarsan and Neo-Salvarsan substitute (Intravenous or Intramuscular). Effective and safe. Produces no undesirable effects.

HECTARGYRE.

A combination of Hectine with Mercury.
Intramuscular Injection; also in
Pills and Drops.

HECTINE.

Anti-Syphilitic. Low Arsenic percentage. Good results in Intractable Syphilis. Intramuscular Injection; also in Pills and Drops.

THE Anglo-French Drug Co., Ltd.

beg to state that they have opened a branch in

BELGIUM

under the title of Laboratoires Pharmacologiques Anglo-Français

> 36 Rue du Couloir, BRUSSELS

> > The Manager in

BRUSSELS

thoroughly **1**S conversant with Continental business, open to push British and Medical and Pharmaceutical preparations in

BELGIUM

Settlements in London.

PHARMACEUTICAL PREPARATIONS.

Quinine Salts are now Restricted KINECTINE.

A Quinine Salt of Hectine. Pro-phylactive and Curative for Hay Fever, Rhinitis, Influenza. In Tablets.

KRAMYZARINE.

Treatment of Varicose Veins, Phlebitis, Varicose Ulcers, &c.

LATAPIE.

Reaction.
Simplified Wassermann Te Test,

MORUBILINE.

Extract of the fresh liver of the cod. Supersedes Cod Liver Oil.

NEOCAINE-SURRENINE.

A perfect Cocaine substitute of low toxicity. Reliable and safe. Spinal and Local Anæsthesia. Ointments, Gargles, Snuffs, &c.

OPOLAXYL

For Constipation. A combination of pancreatic, biliary, and intestinal secretions. A normal regulator of the intestinal functions.

Tablets.

QUINEINE.

A liquid extract from Cinchona Succirubra. Contains 5% of Quinine Alkaloid.

RHEANTINE.

(LUMIERE)
For the treatment of Gonorrhea
in its various stages by the
internal administrations of
specially prepared Gonococci.
In Spherules, Rapid, effectual,
harmless. harmless

STANNOXYL SOLUTION

For Staphylococcal affections. In 2 c.c. ampoules for Intramuscular Injection.

STANNOXYL TABLETS.

Oxide of Tin and Tin-metal free from lead. Treatment of Acne, Boils. etc.

SUKROSERUM.

Solution of Saccharose Intramuscular Injection for Tuberculosis.

SUPSALVS.

Stable Suppositories of "606." (French Manufacture). Simple, effective, harmless. Give excellent clinical results.

TRICALCINE.

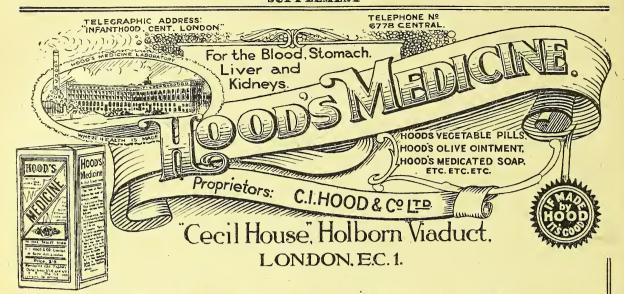
Contains the pure phosphates of lime and magnesia.

URASEPTINE.

Composed of Urotropine and Helmitol, A powerful Urinary Antiseptic Cissolves and eliminates Uric Acid

VALERIANATE.

Valerian, without smell or taste



Special Message to Wholesale Houses

We frequently receive complaints from Chemists that the liquid, and tablet forms of Hood's Medicine cannot be obtained from Wholesale Houses. Please note that all our lines can be supplied promptly. Assorted Orders for £5, carriage paid, give the Wholesaler a margin of $12\frac{1}{2}\%$ profit.

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s.	3d.	size	•••	- •••	•••	W	10s. 6d. pe	r doz	. net.
	0d.			• • •	•••	•••	26s. 6d.	11	90
5s.	0d	new	size	 e quanti	ty of 3/- bo	···	50s. 0d.	99	20

Beecham's Cough Pills:

1s.			•••	• • •	•••	• • •	105.		13	91
3s.	0d.	"	• • •	•••	•••	•••	26s.	6a.	19	91

Orders: Minimum quantity £5 value—approximately. | Packages FREE. Carriage PAID.

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ld., St. Helens."

HEART

Breath Violets Cachou d'Amour

Caressa (Registered)

Dress Circle

Eau de Cologne

Hyacinth Pink

Heliotrope

Japanese Glory

Jasmin

Jockey Club

Queen Mary

Violets

SHAPE

Lily of the Valley

Mixed Bouquet

Moonlight Musk

Opoponax

Parma Violets

Patchouli

Pompadour

Lavender

Royal Nectar

Sweet Kiss

Wallflower

Killarney Violets

THIN

DIAMOND SHAPE

Heliotrope

Jasmin Lavender Jazz Jockey Club

Lilac Lily of the Valley

Mixed Opoponax

Musk Orange Flowers

Rosebuds Parma Violet

Violets Blue Wild Rose

Wallflower Zenana

PREPARED FROM THE FINEST INGREDIENTS AND HIGH CLASS OTTOS

PRICE 3 - PER LB.

Ass Cachous are sent in free 1th Cartons unless specially ordered in bottles or vases HEART SHAPE SENT unless DIAMOND or SMALL ROUND specially ordered

SMALL ROUND SHAPE

English Roses

English Violets

Red Roses

Tea Roses

Wood Violets

Marinfactured by
TER & CLARKE LTD OON & MANCHESTER

iams' Pink Pills

NOW ON P.A.T.A. AT FACE VALUE

THE FOLLOWING PRICES ARE NOW IN FORCE:

Dr. Williams' Pink Pills Pinkettes (laxative)

Terms Net. Carriage Paid.

To the Public To Retailers To Wholesalers per doz. per doz. 29/-3/-

26/-1/312/-10/9

Irish Prices on Application.

SPECIAL CASH WITH ORDER OFFER.

For Cash with Order we are prepared to supply 6 dozen lots of Dr. WILLIAMS' PINK PILLS at best price, viz.: 6 doz. at 26/- per doz., £7 16s. (or assorted goods to same value), carriage paid.

Always Advertising.

Always Selling.

All correspondence to be addressed to-

G. T. FULFORD CO. Ltd. (of Canada), 36 Fitzroy Square, LONDON, W.1.



HEADACHE, NEURALGIA, RHEUMATISM and INFLUENZA.

Write for wholesale terms to

CEPHOS LTD., Blackburn, Lancs.

THE IMPROVED EY CASH

This Till, though so inexpensive in price, does the work just as efficiently as one costing double the price. It is made from well-seasoned wood, stained and polished to imitate richly coloured mahogany. Size: 18×9×74. Lid fitted with lock and key. Recording paper 34. wide. Automatically rings warning bell every time cash drawer is opened. Price, packed in wood case, 77/6 each.

Sent on 14 days' trial on receipt of cash or two wholesale trade references.

Dudley Till Coils, 5/- doz.



DUDLEY & CO., 451 Holloway Road, N. 7.
City Showrooms-25 Wood Street, Cheaps de, E.C.2.



CURE'

The Proven and most Reliable Preventive and Cure for TRAIN and SEA sicknesses.

Packed in aluminium boxes enclosed in decorated cartons. Large size 8/- per box (enough for tour journeys). Small size 4/- per box (enough for two journeys).

EACH BOX CONTAINS TWICE THE VALUE OF ANY OTHER SIMILAR REMEDY.

25% Discount For quantities up to 6 dozen.
25% & 10% For quantities over 6 dozen and under 12 dozen.
25% & 15% For quantities over 12 dozen.
Special Extra Cash Discount 23% Discounts Chemists

Apply-'C. CURE,' Limited, 111-113 Gt. Portland Street, LONDON, W.1.
Phone: 4510 Mayfair.

Telegams: "Cecurico, Wesdo: London"

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RED BAND Bismuthated Magnesia

THE ALL-VALUE LINE

Revised Prices:

 $4\frac{1}{2}d.$ 9d. 1/3

30/

COST

COST

CR 60/- GROSS 99/-

NET ONE MONTH.

BONUS of One Dozen given with each Gross.

Orders for 30/- up, carriage paid.

SPECIAL OFFER FOR ONE MONTH.

All orders placed on or before October 9 will be subject to a special discount of 10%. Payment one month from delivery date. This offer gives you a profit of 105% on costs.

NO DISCOUNT ALLOWED AFTER OCTOBER 9.

PROFIT on Costs 105% On Costs PROFIT

THE MAGNESIA THAT GIVES THE BEST RESULTS.

SAMPLES WILLINGLY SENT.

New Price Slips will be sent to Customers who still hold a stock of 7½d. size.

The Red Band Chemical Co., Richmond Terr., Edinburgh

ALL REACTIONS of Body Fluids and Tissues are COLLOIDAL.

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with COLLOSOLS the elements of the body.

CROOKES'

"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

COLLOSOL SULPHUR

Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spa practitioners will find Collosol Sulphur treatment, invaluable.

It is prepared in five different forms-for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:-

ARSENICUM, CUPRUM, ARGENTUM. FERRUM, HYDRARGYRUM, IODINE. PALLADIUM. MANGANESIUM,

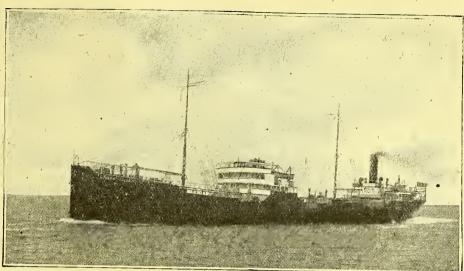
Kindly Note Change of Address

Particulars, Literature, and Reports from

The CROOKES' LABORATORIES

22 CHENIES STREET, TOTTENHAM COURT ROAD, W.C. 1.

Telephone: MUSEUM 3663.



Tank Steamer "NARRAGANSETT II."

Choice of Finest Materials

The Nujol Laboratories of the Standard Oil Co. are not restricted to one, or even several, producing centres for their raw materials. They operate the largest merchant fleet of steamers in the Western Hemisphere. The result is that the Nujol Laboratories are able to select for their product the finest crudes the world produces.

Nujol is produced in bright, cleanly, well-aired factories, where the strictest sanitary regulations prevail.

A corps of expert chemists follow the product through manufacture, and tests are made during the various processes for purity and viscosity. Get your share of Nujol profits. They are larger than the average proprietary. The first purchase leads to repeat orders because Nujol is a treatment—not a single dose remedy. Orders received now will have prompt attention.

Nujo1

FOR CONSTIPATION

Made by the Standard Oil Co. (New Jersey), New York, U.S.A. If your wholesale house cannot supply you write to the sole distributors for the United Kingdom: The Anglo-American Oil Co., Ltd., Minerva House, Bevis Marks, London, E.C.3. For India: Muller & Phipps, (India), Ltd., Bombay, Calcutta, Madras.

WRITE FOR FULL PARTICULARS.

Full details of Special Free goods offers, also advertising and window display materials, on application to the

ANGLO - AMERICAN OIL CO., LTD.
MINERVA HOUSE, BEVIS MARKS, LONDON, E.C.3.





BLINBLOW **Asthma Cure**

Obtainable from all Wholesale Houses.

Owing to the increase in production costs the prices of this steady-selling remedy have been increased as follows:

SMALL SIZE (Powder & Cigarettes)

FACE VALUE -1/6

4/-

LARGE SIZE (Powder only)

33/- doz. net.

TRADE TERMS - 12/- doz. net.

3-doz. quantities 11/6 , 3-doz. quantities 31/- ,

Name and Address printed free on orders for 3 doz. 1/6 tins. Carriage Paid to all parts of the United Kingdom on lots of 3 doz. and upwards. THESE PRICES ARE FULLY PROTECTED BY THE P.A.T.A.

THERE'S ONLY ONE





IT NETS YOU

25 %.

More on £2 lots.

Write for Best Terms to the Sole British Agent

The Denver Chemical Mfg. Co. NEW YORK.

J. F. Murphy, 41 St. Ann's Rd. LONDON, E.3.

Clarke's Blood Mixture.

WHOLESALE PRICES.

3/- size Clarke's Blood Mixture £1-7-0 per doz. £16-4-0 per gross net. 12/- ,, ,, ,, ,, £5-8-0 ,, £64-16-0 ,, net.

Orders: Minimum Quantity £16-4-0 Value Carriage paid upon orders of £100.

MINIMUM RETAIL SELLING PRICES 3/- and 12/-

Above prices will give a Profit of $33\frac{1}{3}\%$ on cost to the Distributors.

Sole Proprietors:

THE LINCOLN & MIDLAND COUNTIES'
DRUG CO. LTD.,
PARK STREET, LINCOLN.

NEW PRICES

OF



Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

Pocket Size $10\frac{1}{2}d$. Corresponding 8/5 Medium Physician's 3/- Trade Prices Trade Prices 8/5 19/2 Trade Prices 28/9½

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct-

J. E. GARRATT, 96 SOUTHWARK STREET, LONDON, S.E.1.

P.A.T.A. NOTICE.

113 Temple Chambers, Temple Avenue, E. G. 4

September 17, 1920.

The following prices are

now in force:		
Advertised Minimum Retail Wholesale Price Allen & Hanburys, Ltd.:		
1/9 "Allenburys" Castor Oil		
3/- ,, Emulsion 1/9 15/9 doz.		
H. C. Queich & Co.: 2/- Cutex, The Ideal Cuticle		
T) /		
4/- " medium 4/- 36/- "		
2/- Nail White 2/- 18/-		
2/- Nail Polish Cake, White 2/- 18/-		
2/- ,, ,, Pink 2/- 18/-		
72a., Trial size $74d$ 5/c		
1/6 Nail Polish Stick (in metal tube) 1/6 13/6 , 1/6 ,, ,, Powder 1/6 13/6 ,		
9/- Noil Delielies D / D: 1		
2/ Plain 9/_ 19/ "		
2/6 Liquid Nail Enamel 2/6 29/6		
2/- Cuticle Comfort 2/- 18/-		
2/- Nail Bleach Powder 2'- 18/-		
2/- Nail Rouge 2/- 18/-		
3/- Compact Manicure Set 3/- 27/- ,,		
9/6 Travelling ,, ,, 9/6 84/- ,, 19/- Cutex Boudoir Manicure Set19/- 168/- ,,		
2/- ,, Cold Cream 2/- 18/		

Petroleum Jelly

> White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works Bootle Liverpool.

Packed in barrels, kegs and smaller packages according to requirements.

Inquiries are solicited for this article of British Manufacture, and buyers may rely that for quality and price, it will meet any competition.

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires "Cestrian Liverpool,"

WHITE OILS.

PETROLEUM JELLIES.

PARAFFIN WAXES.

NEUTRAL OILS,
Debloomed and Undebloomed. PALE & RED LUBRICATING OILS

CYLINDER OILS.

W. J. SMITH, SOLE EUROPEAN B. THE JAMES B. BERRY'S SONS CO. Inc. B. 110 Cannon Street, London, E.C.4.

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL

16/9 21/- 26/6

WHITE DRILL

17/6 19/6

19/6 BLACK DRILL

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.

GARDINER & CO. (THE SCOTCH) LTD

1 Commercial Road, E.1.

839. Phone : AVE. 6650 (4 lines)

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Petroleum Jelly

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K. MALMBERG

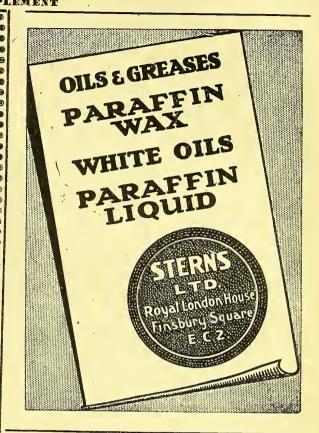
110 Cannon St., London, E.C.4.

AND AT NEW YORK.

Telegrams: "Obtempero, Cannon, London."

Telephone: City 6321.

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LEON FRENKEL,

10 Lime Street, LONDON, E.C.3.

"SEMPROLIA"

SNOW - WHITE PETROLEUM JELLY

- "Semprolia" is now being advertised in Magazines and Periodicals appealing to 8 million people.
- You are certain to be asked for "Semprolia." Do you carry it in stock? If not, it will pay you to place an order now.
- "Semprolia" is a P. A. T. A, article allowing at least 25% on sales.



In Jars, Tubes and Sample Tins. ¶ Showcards, Leaflets, etc., sent on request.

Send for Price List and Terms.

THE WM. BROWNING CO., LTD.
Albert Works, Park St., LONDON, N.W., 1

The House for Best Quality Liq. Parassins.
White Oils, etc.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W. WHO INVITE INQUIRIES.

KRING SPINI

OILS AND CHEMICALS

Buy from one of the oldest houses in the trade.
Write for Prices.
Established 1794.

SAMUEL THORNLEY, Ltd., Birmingham.

WOOL GREASE ALL GRADES.

K. MALMBERG, 110 Cannon Street, LONDON, E.C.4.

AND AT NEW YORK.

Telegraphic Address:

"Obtempers, Cannon, London."

Telephone No. : City 6821.

ADEPS LANÆ

"ULTRAVI" Brand.
The Latest & Best.

— Inquiries Invited. —

THE

C.V.O. Chemical Works,

LIMITED.

Petersham Road,

RICHMOND (SURREY).

FINEST

BLACKS AN

COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

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Guaranteed Harmless.

50

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times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE
and
IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

#### **ETERNITE**

A combined Stain and Preservative for Wood

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS
In 1/- Tins.

## WILLIAMS BROS. & CO.

Hounslow, Middlesex.

# 

#### "ENERGEN"

The Brand of DIABETIC BREAD that is now being recommended by the Medical profession, as it is the only one that fulfils their requirements.

#### YOU SUPPLY IT? CAN

If you cannot, then write immediately for full particulars, so that patients placed on this diet by their doctors can obtain their supplies through you.

Specially packed for Chemist's Trade.

Light, crisp, delicious



The most palatable and nutritious Gluten bread on the market, Keeps perfectly.

YIELDS A GOOD PROFIT,

THERAPEUTIC FOODS CO. 19c Roundwood Road, Willesden, N.W.10.

#### SUPERIOR HEALTH SAL OUALITY.

4-oz. Decorated Tins.

1 Gross ... 78/- 5 Gross ... 77/2 ... 77/6 10 ... 76/6
Carriage paid.

W. FOX & SONS, Botanic Druggists CASTLE STREET, SHEFFIELD.

#### ALL CHEMISTS SHOULD STOCK DRINK.

THE GOLD MEDAL FRUIT Quick Seller. Big Profits. Over 40 years' Reputation. "Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, 2d. each.
Wholesale Prices on application. Sample Box 1/6,

M'GLASHAN, M.P.S., LAbdine Works, Westfield Road, EDINBURGH.



"John



Bull "

## MALT EXTRACT

and

#### COD LIVER OIL

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

### BISHOP'S Natural Fruit Saline.

#### THE BEST SELLER.

This preparation, our latest Saline, made by our special process, without Sugar or Saccharine, is a unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught which acts as a mild but very thorough aperient, anti-acid and liver stimulant.

Bishop's Natural Fruit Saline is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

The Wholesale price is 20/- per doz. On £5 lots, discount 10%, and carriage paid.

The P.A.T.A. Retail Price is 2/3 per bottle.

This ensures a profit of 9d. per bottle to the chemist.

Prepared only by

ALFRED BISHOP, LIMITED, 48 Spelman Street, LONDON, E. 1.

DIAMALT

Plain and with 15% or 33% (by weight) COD LIVER OIL

DIAPARAFIN

Malt Extract and Paraffin in Powder form.

The above Preparations are on the P.A.T.A. and allow a 25% margin.

EXTRACT of MALT

Plain and in combination with

NORWEGIAN COD LIVER OIL

BULK - JARS - TINS

Name and Address on Labels for quantities of 6-doz. Jars or Tins.

(Selection of Labels sent if required.)

SAMPLES AND PRICES ON APPLICATION.

THE BRITISH DIAMALT COMPANY

(Proprietors: H. A. & D. TAYLOR, LTD.)

Northern Agency:

SAWBRIDGEWORTH,

HERTS.

BULK - JARS - TINS

Northern Agency:

J. B. CROSSLEY, Arcade Buildings,

85 Lord Street, LIVERPOOL.

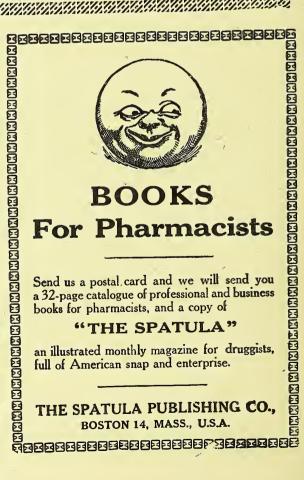
The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers:

#### CALLARD & Co.

Food Specialists, 74 REGENT ST., LONDON, W.1



## A Seasonable Question

Every pharmacist should now be thinking about winter supplies of Cod Liver Oil Emulsion. The chief points to be considered are QUALITY, STABILITY, PROFIT and RISK, in their various bearings as follows:—

#### When the pharmacist makes and packs his own emulsion

he has to assume all risk of deterioration or failure to sell. He has to invest his capital in considerable stocks of the various ingredients, containers, labels etc. etc. He has to create the demand for every bottle that he sells and the cost of any sampling or advertising comes out of his profits.

#### When he buys an emulsion ready packed with his own name

he avoids some of the worry and trouble, but still has to sell all of it entirely "off his own bat," and still has to provide his own showcards, samples and advertising.

#### When he buys 33 % Cod Liver Oil Emulsion, P., D. & Co.

his investment is limited to finished stock which is in constant demand—he has only to display the product on his counter and in his window, and to maintain a reasonable reserve. Certain selling aids are provided for him. Further, much is done in various directions to stimulate demand.

#### 33% Cod Liver Oil Emulsion with Hypophosphites, P., D. & Co.

is prepared with the finest non-freezing cod liver oil, rich in vitamine (fat-soluble A), with hypophosphites of calcium and sodium; it is manufactured and finished by special processes which ensure its stability. The profit it yields is exceptionally good, particularly when purchased on special terms. There is no risk whatever; it is prescribed by physicians throughout the country, and the laity accept it as the standard emulsion.

A sample, with details of selling plan, will be gladly sent to any pharmacist upon request. Send a post card now to

Telephone—Regent 3260 (six lines).

Telegrams-" Cascara London."

PARKE, DAVIS & CO., London, W. 1.

## Semsemb

ICE-REFINED
PURE
NORWEGIAN

#### COD LIVER OIL

from the original factory at LOFODEN, NORWAY.

In Original Tin-Lined Barrels, Gallon Tins, Winchesters and Bottles,

Samples and Prices on application to the Sole Proprietors:

HERTZ & CO.,
9 Mincing Lane, LONDON, E.C.3.

Established 1878

Warehouses, Factory & Laboratory, 20 Bevis Marks.
Telephone: 10607 Central.
Telegrams: "Freshness Fen."

THE

## FLOROZON

CHLORIDE of AMMONIUM

## INHALER

(Patent No. 110718)

The most reliable and effective inhaler for the relief of all kinds of Bronchial Complaints such as Coughs, Nasal Catarrh, Hay Fever, Asthma, etc. etc.

Packed in a convenient form in carton, complete with the various medications and directions for use

Large Profit to Chemists.

Illustrated Booklet and Showcards from the Sole Patentees:

HERTZ & CO.,

9 Mincing Lane, LONDON, E.C.3.

Established 1878

Warehouses, Factory & Laboratory, 20 Bevis Marks.

Telephone: 10607 Central. Telegrams: "Freshness, Fen."

#### LOSALL'S SALT

SELLS FREELY & READILY

PAYS 50% ON OUTLAY

An Infallible Remedy for GOUL. RHEUMATISM,

ECZEMA,

and SKIN

#### AFFECTIONS.

P.A.T.A. Doz Net. 4-02. 1/- 8/-8-02. 1/10 15/-Bottles 2/6 20/-

The only line of its kind on the market

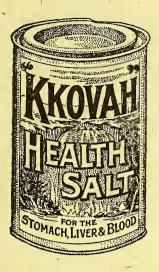
SOLD EVERYWHERE.

Manufactured by

LOFTHOUSE & SALTMER, Ltd. HULL







#### Kkovah Health Salt

Makes you fit-keeps you fit

## Don't allow the "other man" to get your share of the demand for Kkovah Health Salt.

We do the advertising and increase the already big demand . . . . all you have to do is to meet it.

Get your stock now and display a few tins on your counter.

Prices and Cerms for the asking.

SUTCLIFFE & BINGHAM LTD.,
Cornbrook - MANCHESTER.

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## TONIC SALTS

A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Invaluable for Keeping the Liver and Kidneys Active.

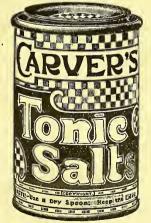
Attractively packed. Shows 50% Profit to you.

Price in gross lots, per 100/- gross.

Carriage Paid.

Less Special Stocking

Bonus of 5 %



A scientifically prepared Effervescing Saline, possessing medicinal properties superior to the ordinary Health Salts

#### A FREE TIN

will be sent for your personal trial on receipt of application on letter heading.

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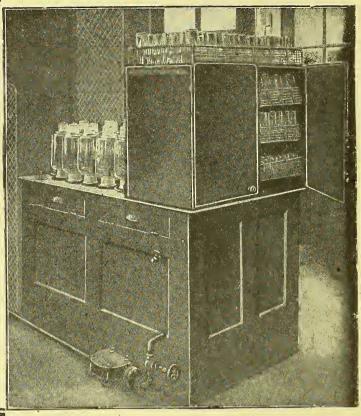
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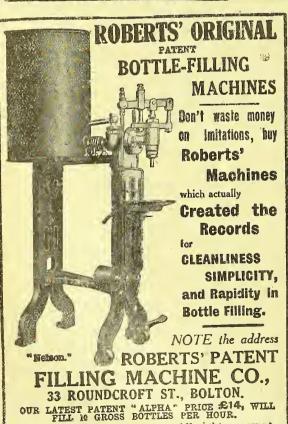
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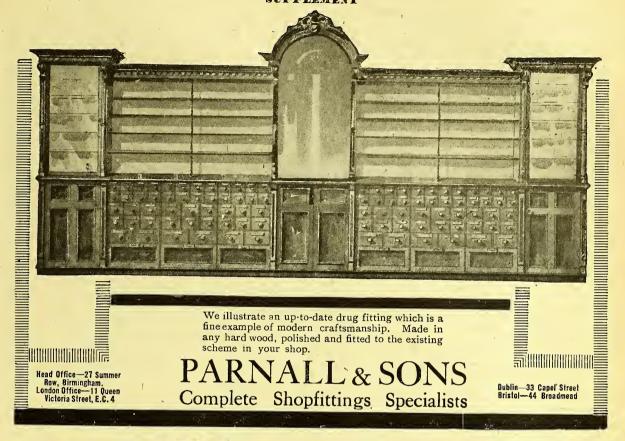


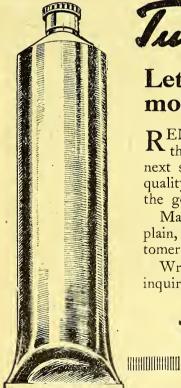


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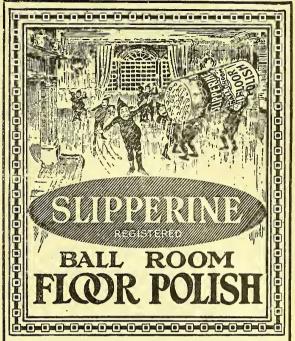
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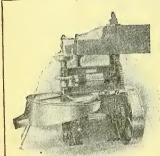
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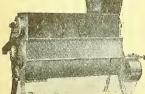
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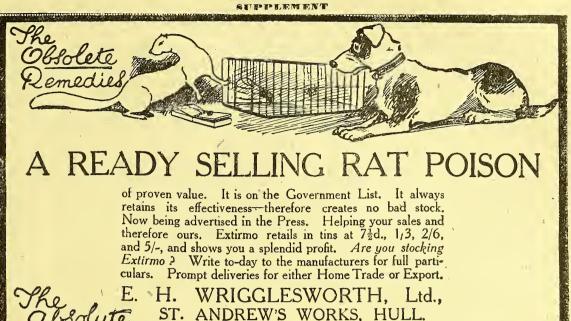
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**SEPTEMLER 18, 1920** 

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A N excellent Business, with great scope for increase; very comfortable house and small garden; situate in healthy position on South Coast; well-fitted Pharmacy; clean, modern stock; returns about £1,000; price £750; sole reason for disposal, owner retiring. Walters, 32 St. Nicholas Road, Brighton.

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BUSINESS wanted in good-class district, returning £1,000 to £2,000 per annum. If genuine, please send full particulars in first instance to "R.," 21 Perth Road, Lordship Lane, Wood Green, London, N.

RUG STORE required; North-East Coast preferred; suitable for unqualified man; shop, with bouse; neglected business, in good position, not objected to. Apply, with full particulars, to H. E. P., 32 Petterill Street, Carlisle.

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GENUINE Business wanted, yielding about 2500 a year net profit; London suburb or Home County. Full particulars to 191/32, Office of this Paper.

VERY small country Drug or General Store; comfortable residence essential; South preferred. George, 13 Quebec Street, Brighton.

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BRISTOL.—Wanted, smart, reliable, unqualified Assistant, with good-class Retail and Dispensing experience; up-to-date Window-dresser and Counterman; good references essential; if suitable will be trained to take charge. State experience, age, beight, references, salary required, and enclose photo, which will be returned, 190/30, Office of this Paper.

CHEPSTOW.—Junior Assistant for Light Retail and Dispensing; easy hours; no Sunday duty; outdoors; state salary and particulars. Olarke, Ohemist, Chepstow.

ROLKESTONE.—Wanted, Junior Assistant, about 20, experienced in best-class Dispensing business. Apply, giving full particulars of experience, reference, and salary required (outdoors), to Hall & King, West Cliff Pharmacy, Folkestone.

GLOUCESTER.—Assistant required (outdoors) for good-class Dispensing and Light Retail. Photograph and salary required to Ward & Woodman, Eastgate Street.

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ANCASHIRE.—Unqualified Assistant; age about 20-21; Dispensing and Counter experience; permanency; state salary required and when at liberty. Apply "Lancs" (189/131), Office of this Paper.

IVERPOOL.—Young, unqualified Assistant (for September 27th), for busy Retail trade; energetic; good, courteous Salesman. Apply, with particulars, photo, references, salary required, etc., to Norman's Pharmacies Ltd., 113 Heyworth Street, Liverpool.

LONDON.—Junior Assistant (unqualified) required immediately for Light Retail and Dispensing business; permanent and progressive position. Apply "Junior" (189/130), Office of this Paper.

I ONDON (Central).—Outdoors; young, qualified Assistant, mainly for Dispensing; some knowledge of Continental' Pharmacy and of French an advantage. Write, with full particulars, to Frizell & Co., 1 Cranbourn Street, Leicester Square, W.C. 2.

LONDON (Central).—Smart, unqualified Junior, about 22, for ness; outdoors; no Sunday or Bank Holiday duty. State usual particulars and salary required to Manager, Martin & Co., 164 Charing Cross Road, W.C. 2.

ONDON, E.C.—Cassie & Co., 49 Newgate Street, will require Junior Assistant beginning of October; easy bours. Apply by letter only, stating full particulars and salary.

LONDON, S.E. (8 miles out).—Assistant required (shortly), competent and trustworthy, for medium-class business; interview courted. Apply, stating experience, references, age, and salary required, to H. W. Beale, 3 High Street, South Norwood, S.E. 25.

Jondon, S.E. (near London Bridge).—Wanted, smart, reliable Junior Assistant, for quick Retail and N.H.I. Dispensing business; usual hours; Thursday half-day; no Sunday duty. State full particulars, age, references, salary required, etc., to 192/4, Office of this Paper.

LONDON, S.W.—Wanted, Junior Assistant for good-class Family business; outdoors. Full particulars, age, experience, salary required, etc., to H. C. Neve, 10 Victoria Parade, Norbury, S.W.

LONDON, W. and W.C.—Several vacancies for qualified and unqualified Assistants; scope for men of high-class experience, energetic, and efficient; good salesmanship essential; knowledge of Frepch an advantage. Apply, stating age, height, experience, and salary required (outdoors), Cofman's Pharmacy, 6 Bloomsbury Street, London, W.C. 1.

MANCHESTER.—An unqualified Second Assistant required for the Retail Counter of a high-class City business; must be quick and well up in Counter work. State experience, age, and salary expected, to 23/29M, Office of this Paper.

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SOUTH COAST.—Manager wanted for good-class modern Drug Stores; must be good Salesman, Window-dresser, and well up in Photographic trade. State in first letter full particulars of experience, salary required, and when disengaged, to Lion Drug Stores, Ltd., 15 Madeira Place, Brighton.

STAFFORD.—Unqualified Assistant, young, for Dispensing Counter; must be quick and accurate Dispenser; state experience and salary. J. & H. A. Averill, Stafford.

TREORCHY, SOUTH WALES.—Young lady Assistant with Optical experience required by October 4th; permanent and progressive position to satisfactory applicant. Apply "Optical" (189/13), Office of this Paper.

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A SSISTANTS required at Darlington and Middlesbrough branches; knowledge of Photography preferred. Apply stating age, height, experience, and salary required, to Waters, Chemists, Darlington.

A SSISTANT (male) wanted for Dispensing and quick Counter trade. Apply, with full particulars of experience, salary required (outdoors), eto., enclosing photo if possible, to F. H. King, 178 Hamlet Court Road, Westeliff-on-Sea, Essex.

A SSISTANT; unqualified; outdoors; must be smart Counterman. Apply, giving usual particulars, to Colmans, Limited, 161 Bury New Road, Manchester.

A SSISTANT, Junior, or Improver, either sex, for Light Retail, Dispensing, and Photographic business. Windermer & Booth, Chemists, Surbiton Hill, Surrey.

A SSISTANT, unqualified, to manage branch, Speciality and Proprietary Business; progressive situation; good character indispensable; permanent situation for reliable man. Lord, Redoliffe Lodge, Nottingham.

CAPABLE Junior with good Dispensing experience wanted end September; must be quick and accurate; give particulars of previous engagements, age, and mention salary expected. Braddock & Bagshaw, Ltd., 37 Yorkshire Street, Oldham.

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CIBSON DIXON, Chemist, 8 Old Market, Halifax, has a vacancy for a good unqualified Assistant, about 24 to 30 years old; Counter and Dispensing; close at 7 three nights and 8 two nights; no Sunday duty; state age, experience, and salary required, and name references in first letter; send photo, if ressible

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JUNIOR or Improver (male) wanted at once in Light Retail and Dispensing business. Apply, giving usual particulars, salary required, and when disengaged, to J. A. Johnson, Pharmacist, 54 Barber Road, Crookesmoor, Sheffield.

JUNIOR or Improver wanted; outdoors. Salary and full par-ticulars to Barker Hill, Chemist, Linden Road, Gloucester.

JUNIOR or Improver, male, outdoors, for October 11th; one just finished apprenticeship would suit, and accustomed to Counter; state particulars of experience, salary required, and enclose photo, if possible; applications not answered in three days declined. A. Middleton & Son, Chemists, Nottingham.

JUNIOR Assistant; Dispensing, Photography, and quick Retail; one just finished apprenticeship preferred. Long, 26 Stamford Hill, N. 16.

JUNIOR Assistant or Improver required (at once) for Light Retail, Dispensing, and Photographic business; good refer-ences essential. Write, stating full particulars and salary re-quired, to Marshall & Co., 5 Pimlico Road, S.W. 1.

JUNIOR, for Light Mixed Retail; must be reliable and energetic, having a fair knowledge of Counter work; qualified Assistant and porter kept. Apply, with full particulars, Hunter, Chemist, 44 Market Place, Wigan.

JUNIOR Assistant required; unqualified; good Counterman; state age, experience, references, salary required (outdoors), and when disengaged. S. H. Bird, Chemist, Spon Street, Coventry.

JUNIOR Assistant required for Dispensing and General Retail; please give full particulars as to experience, etc. W. Gray, F.S.M.C., Chemist and Optician, 40 Orford Road, Walthamstow,

JUNIOR Assistant, male, outdoors, in large country business, affording varied experience and time for study, in which assistance given if desired; porters and boy for heavy work; short hours; no Sunday duty. Full particulars, with photo, if convenient, H. R. Maynard, Horncastle, Lines.

JUNIOR Assistant (male) wanted (outdoors) about October 6th in West Wilts. Apply, stating full particulars as to age, experience, and salary required, "H. T." (192/7), Office of this

ADY Assistant for good-class Retail and Dispensing. Full particulars and salary required to J. E. French, Pharmacist, Sittingbourne.

LADY or gentleman, to manage Drug and Toilet Department (qualification not necessary); good Salesman or Saleswoman. State salary required and when at liberty, with references, to Uttley, Chemist, 96 Princess Road, Moss Side, Manachestre.

MANAGER required for high-class business in South Wales; accommodation for married man. Apply, with copies references, particulars experience, and salary, to 189/33, Office of this Paper.

MESSRS. BENNISONS, LTD., Chelsea, have a vacancy for a competent, gentlemanly, reliable Senior; must be a good Counter Salesman and well up in Photography, with good all-round experience. State age, references, salary required, and enclose where if compositions. photo if convenient.

QUALIFIED man, about 30, as Senior. State age, experience, height, and usual particulars, to 188/12, Office of this Paper.

QUALIFIED Manager required; must have had first-class experience and be an energetic Salesman. Apply, by letter in first instance, with full particulars of age, height, references, and experience, to Mr H. J. Perrett, 90 Victoria Street, S.W. 1.

QUALIFIED Branch Manager (outdoors), aged 25-30, required for good-class Retail business; an energetic man with good Counter experience essential. Apply, stating age, height, references, salary, etc., and enclosing photo (to be returned), to T. & W. Woodruff, Pharmacists, Oheadle, Ches.

REQUIRED (immediately), Junior Assistant for high-class business near Birmingham; good Dispensing experience essential. Apply, stating full particulars as to references, salary, etc., to 193/4, Office of this Paper.

SMART Junior wanted, early in October, for Dispensing (plenty of N.H.I.) and to assist at Counter; please state age, experience, and salary required (outdoors). Apply the Manager, 149 Balby Road, Doncaster.

MART, unqualified Assistant wanted; age 22 to 25; single; hours 8.30 to 7.30, Wednesdays 8.30 to 1, Saturdays 8.30 to 9; no Sunday or Bank Holiday duty. Fullest particulars as to salary, previous experience, etc., in the first instance, W. H. Dixon & Sons, Ltd., East Grinstead.

UNQUALIFIED Assistant wanted; all-round man; state experience, salary, etc. A. E. Bird, M.P.S., Durbin's Drug Stores, 24 Market Place, Kingston-on-Thames.

UNQUALIFIED Assistant required for Light Retail and Dispensing business. Apply, with full particulars and salary required, to Bales, Chemist, Albany Road, Coventry.

UNQUALIFIED Assistant wanted, age about 30; must be good Salesman and Window-dresser; short hours; no extra duties. Apply, stating experience, age, salary required, with references, to Taylors' (Northern) Ltd., 4 Crown Street, Halifax.

UNQUALIFIED Assistant (male) wanted in good-class Family and Dispensing business; one just out of apprenticeship would suit. Apply, stating full particulars and salary required, to Gregory & Wrenn, Chemists, Taunton.

WANTED (at once) at the Ministry of Pensions Hospital, Cannock Chase, Hednesford, Staffs, an Assistant Dispenser and Laboratory Attendant, male; ex-Service man preferred. Applications, with copies of testimonials, to the Medical Superintendent

WANTED, a qualified Assistant, about 30, who has been accustomed to a good country business with agricultural trade; able to take full charge if necessary. Apply, with full particulars, stating age, salary required, etc., to Mumford, Chemist, Bridgend.

WANTED, competent Junior Assistant for Light Retail and Dispensing business; undeniable references required. Send full particulars, stating salary required, to Ostler & Green, Chemists, 95 High Street, Strood, Kent.

WANTED, young lady Assistant, experienced in Dispensing, in small, good-class business, in- or out-door. Apply, giving particulars as to age, experience, reference, salary, etc., to Seth Harry, The Pharmacy, Okehampton, Devon.

WANTED, unqualified Junior Assistant for October 1st; know-ledge Photography essential; must have good reference; out-doors. Please state full particulars in first letter, Nidd, Chemist, 714 Rochdale Road, Manchester.

WANTED, smart Junior for Cash Retail. State age, experience, and salary required, to F., 4 Mount Ephraim Lane S.W. 16.

WANTED, Junior Assistant; quick, accurate Dispenser. State age, references, and salary to C. J. Allan, Chemist, Redear.

WANTED (immediately), Assistant, unqualified, young, single, for good-class Dispensing and Photographic business (out-doors); hours 8.30 to 7, Saturdays 8; short duty on alternate Sundays. State age, height, particulars of experience, and salary required to C. Gilling, Chemist, Sunningdale, Berks.

WANTED, young lady, Hall qualification, as Second Dispenser and Amanuensis; knowledge of typewriter essential. S. J. Coley, Ltd., Stroud, Glos.

#### WHOLESALE.

Clerk required, age about 25; must be quick and reliable at figures, and preferably have some experience in the export trade; progressive post. Reply, with full particulars of experience, stating commencing salary looked for, to 7/150, Office of this Paper.

WALES (except Glamorgan) and the adjoining English counties.—A Representative, having thorough experience and sound established connection amongst Chemists and Doctors in this territory, is required at once by Pharmaceutical house; applicants must already reside or be prepared to reside in area worked; good opportunity for right man. Apply, with full particulars, to 4/550, Office of this Paper.

CLERK (male) required for City Wholesale house; the position offers prospects to intelligent young man of about twenty, of good education, and some experience. Applications, in own handwriting, giving particulars and salary required, to Z.S.238, care Deacons, Leadenhall Street, E.C.3.

Commission Travellers and Buying Agents wanted for charming novelties selling to Chemists in thousands; shows excellent profit Retail, Wholesale, and representatives; state territory and present engagements. "G.," 73 Horsford Road, London, S.W. 2.

COUNTER SPECIALITY DEPARTMENT.—Wanted, for a leading house, competent Manager with first-class experience and references. Apply, with full details of age, experience, and salary required, to 35/348, Office of this Paper.

DOCTORS.—Wanted, a Representative calling upon these gentlemen to undertake the sale and introduction of a first-class non-alcoholic wine of unique character, etc., on a liberal commission basis only. State age, territory covered, and mention what other lines (if any) at present carrying. Reply in first instance to "C." (5/29), Office of this Paper.

DRY-ROOM Assistant wanted for Lancashire; Wholesale. State experience and wages required, 43/19, Office of this Paper.

XYERIENCEL Laboratory Assistant wanted for small Lancashire Wholesale. State experience and wage required to 43/190, Office of this Paper.

PIRST-CLASS Representative wanted by a firm of Manufacturing Chemists, Drugs, etc., Packed Drugs, Pills, and Tablets; previous experience and connection essential. Apply by letter, stating terms, age, and experience, P.C.B. 16/33, Office of this Paper.

INVOICE Clerk, male, typist, with knowledge of Portuguese and Spanish, and accustomed to make out Consular Invoices. Write, stating age, experience, and salary required, to "Spain" 56/59 Bunhill Row, E.C. 1.

MANUFACTURING Chemists require part-time Traveller, with good connection Chemists and Stores, for London, suburbs, and British Isles generally, for exclusive lines. "H. M." (P.C.B. 17/39), Office of this Paper.

REPRESENTATIVE with connection among Chemists and Stores in Northumberland and Durham, to carry side-line on commission basis; light sample, easy seller; good profit to retailer; reference, etc. Apply 189/21, Office of this Paper.

REPRESENTATIVE required, calling on London Chemists, to push winter lines which sell well; samples easily carried; commission and small expenses; must have connection; please state other lines handled. Write "Quality" (190/20), Office of this Paper.

REPRESENTATIVES required for the Sale of Clinical and other Thermometers, on commission basis, for all parts of the United Kingdom excepting Wales and Ireland, Reply, stating ground covered, 188/25, Office of this Paper.

REQUIRED, for the sale of Soap, first-class Traveller calling on Wholesale Chemists and Druggists. Apply, giving full particulars as to age, experience, salary required, etc., to 4/52B, Office of this Paper.

SURGICAL DEPARTMENT.—Wanted, an Assistant, with General knowledge of work, including filling appliances; good opening for intelligent and energetic man. Apply, with full particulars, to Brady & Martin, Ltd., Northumberland Road, Newcastle-upon-Tyne.

TRAVELLER required by reputable firm of Manufacturing Chemists; must be highly qualified Salesman, capable of selling Flavouring Essences, Colours, Chemicals, etc., for the Baking and Manufacturing Confectionery trades; territory, London. Apply 21/12L, Office of this Paper.

WANTED, smart Representative to travel North-East Lancashire district for leading London Druggists, Sundry and Packed Goods house, on liberal commission. Apply, with particulars, to 25/6N, Office of this Paper.

WANTED, as soon as possible, by well-known firm of Wholetake charge of Yorkshire territory; candidates must have an established connection amongst Pharmacists and Medical Men in this district. Apply, with usual particulars, 4/55, Office of this Paper. WANTED (at once), for a Dublin house, a man accustomed to making Pharmaceutical Preparations, working a small Laboratory, and supervising the putting up of specialities, etc. Apply, with full particulars, to 14/25H, Office of this Paper.

WHOLESALE Druggists require a Foreman to take entire charge of "Drys" Department and control small staff; should possess previous similar experience, but one with first-class Retail and Dispensing would be considered; thorough practical knowledge of Drugs, Chemicals, Materia Medica, etc., essential; age 30-35; wages £4-£5, according to capacity and experience. Apply 7/15D, Office of this Paper.

YOUNG man, about 24, wanted as Packer and Stockkeeper in Wholesale Import Sundries Warehouse in Stoke Newington; state experience and salary required. Apply P.C.B. 17/29, Office of this Paper.

#### SITUATIONS OPEN.

#### (Colonial, Indian and Foreign.)

BENGAL.—Wanted, qualified Manager for Hill Station Branch near Calcutta; total abstainer; not over 27; with good Dispensing and Photographic experience; four years' engagement; salary first year 400s., second 425s., third 450s., fourth 500s. per mensem, with commission on cash sales; passage out and home. Send photo, fullest particulars (references), Martin & Harris, 7 Cullum Street, E.C.

SOUTH AMERICA.—Wanted, Assistant, with experience in Wholesale business; age about 50; smart and energetic; three years' engagement; first year £400, second year £425, and third year £450; second-class return passage; good references required; excellent prospects; climate healthy; full particulars of situation on application. Apply, with particulars, to "Export," c/o Evans Sons Lesoher & Webb, Ltd., 56 Hanover Street, Liverpool.

#### SITUATIONS WANTED.

#### [HOME.]

#### RETAIL.

2s. for 18 words or isse ; 8d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/2

A.A.A. -Pre-war qualified, 27, demobbed officer, requires post as Manager or with view to succession; good experience; well recommended. Apply "Merit" (189/2), Office of this Paper.

A.A.A. -LOCUM; 46; disengaged; competent and experifares. "Locum," 2 Christian Road, Preston.

A.A. -DISENGAGED Pharmacist; single; 32; good experience; any capacity, any locality; moderate salary.

A.A. -LOCUM, permanency; excellent references and experior this Paper. "Energetic" (192/23), Office

A LADY requires situation; Minor qualification; three years' experience in a first-class West-End Disponsing business; London preferred. Apply E. M. S., 42 Upper Addison Gardens, W. 14.

A PHARMACIST, 26, now free, desires permanency; wide experience; excellent testimonials. A. S., 143 Wansbeck Road,

A QUALIFIED Chemist desires situation; interview arranged; middle-aged; varied experience. "Statim," 12 Linwood Street, Greenheys, Manchester.

A QUALIFIED Chemist, with 15 years' experience, requires permanent Managership in London, where ability and energy are recognised. Apply 190/16, Office of this Paper.

A DVERTISER, qualified (30) desires Managership, view to succession or partnership preferred, but not essential; highest-class West-End and provincial experience; good Prescriber, Photography, and Window-dressing; energetic, sober, and reliable; highest references; keen business and whole hearted service.

A NY capacity; qualified; disengaged; London or South. Henderson, 25 Miranda Road, Upper Holloway, N. 19.

A S Assistant, qualified, aged 25, tall, in Retail and Dispensing business; used to Laboratory work; good experience; well recommended. "R. J. S.," 37 High Street, Leighton Buzzard.

As Dispenser; or in Light Retail, with view to learning. Young lady (20), Hall qualification, four years' Hospital experience, seeks post as above. E. Walker, Royal London Ophthalmic Hospital, City Road, E.C. 1.

AS permanent or Locum; capable Manager; sixteen years London, country, Continent; qualified; disengaged Monday. Burrell, 78 Rockingham Street, S.E.

A SSISTANT, 33, unqualified, first-class West-End experience, requires berth. "Borol," 28 Melrose Avenue, Cricklewood,

A SSISTANT, 28, unqualified, 10 years' good experience of Dispensing and Counter, desires permanency. "Locum," C/O W. C. Bennett, Chemist, 37 Fore Street, Totnes, South

A SSISTANT; unqualified; permanent or Locum; good Dispenser, Counterman; disengaged September 22nd; married. Apply 33 Central Avenue, New Barford, Nottingham.

A SSISTANT or Manager; 30; unqualified, abstainer, reliable; 14 years' experience; highest references; permanency; South Coast, Brighton, or near; disengaged early October. Apply 147/33, Office of this Paper.

A SSISTANT, middle-aged, unqualified, seeks post at Counter and assist at Dispensing; moderate salary. Particulars, Wyndham Street, Marylebone, W.1.

A SSISTANT, highly recommended, energetic and trustworthy, unqualified, 24, married, requires permanent position (immediately); good experience Dispensing, Counter, and Photography. Full particulars, salary offered, "E. De M.," 96 Chapel Street, Luton.

A SSISTANT, unqualified, 30, requires post; General experience, Counter, Stock, and Dispensing. Searle, 2 Carlisle Avenue, Plymouth.

A SSISTANT (30); Student Associate; single; abstainer; London and provincial experience; excellent references; Dispensing, Counter, Window-dressing. Fisher, 32 Gondar Gardens, West Hampstead, N.W. 6.

A SSISTANT, unqualified; N.H.I., Dispensing, Counter, practical Photographic knowledge; Window-dresser; abstainer; permanency; temporary or part-time; immediate service; Store trade preferred; Metropolis of London only. Write "Hirdennis" (P.C.B. 17/28), Office of this Paper.

A SSISTANT (26); 11 years' good-class varied Dispensing Business experience. Please state salary offered and hours, "Provincial" (191/7), Office of this Paper.

A SSISTANT, unqualified (27); knowledge of Photography; reliable Dispenser; good references; capable of taking charge. Apply 190/39, Office of this Paper.

A SSISTANT, unqualified (49), desires situation; good all-round experience Counter, etc.; good references; Manchester or near preferable. 191/28, Office of this Paper.

A SSISTANT, qualified (51), disengaged, desires situation; active, and painstaking; Midlands or near preferred; moderate salary. Apply 191/27, Office of this Paper.

A SSISTANT, aged 20, tall, abstainer, keen, willing, reliable, with high-class West-End experience, desires London Assistantship, enabling him to attend evening classes in Pharmacy; good Dispenser; reasonable salary; highest references; London. 191/22, Office of this Paper.

A SSISTANT or Branch Manager; excellent experience as both; disengaged October; Photography and Optics; age 31. Apply 191/16, Office of this Paper.

BRANCH Manager or Assistant; 40; unqualified; good Salesman, Extractor; present situation nine years. Munro, 275 High Street, Lewisham, S.E.

BRANCH Management (from October 12); middle-aged; well experienced, reliable, active, courteous; permanency desired. Chemist, 112 James Road, Northampton.

CAPABLE lady Assistant (Hall); 5½ years' Dispensing, Retail,
Photography, London district; state particulars. Shapland,
Laurel Grove, Penge.

CHEMIST would recommend capable, qualified Lady Pharmacist; Dispensing, Counter, Photographic, and all-round worker. Apply the Association of Manufacturing Chemists, Ltd., 31 Kimberley House, Holborn Viaduct, E.O.

CHEMIST'S Daughter (18) seeks post as part-time Improver; two years' experience; Peckham district. "Dispenser," 106 Peckham Park Road, S.E.

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (124/34), Office of this Paper.

DISENGAGED.—Locum, or where a Manager is required thoroughly experienced. 192/34, Office of this Paper.

DISPENSER to Doctor or Institution; disengaged every after-noon from 2 till 5; thoroughly experienced. Address "J. D.," 151 Clarence Road, Kentish Town, N.W.

DISPENSER (Hall), daily, lady; five years' Institution experience; excellent references. Miss B. Warrington, 48 Buckleigh Road, Streatham.

DISPENSER (Hall), lady; experienced Hospital, Surgery, and Institution; excellent testimonials; London or near. M. D., 0akford Road, N.W.5.

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DISPENSER, lady (Hall), Secretary Typist, books, seeks situation with Doctor; middle-aged; references. Apply 187/17, Office of this Paper.

Distrinser, Hall qualification, desires post; London preferred. Miss Harris, 126 Thurlow Park Road, London,

Dispenser or Salesman; two evenings per week from 6 p.m.; London, West or Central. Stanford, 46 Boileau Road, Ealing, W. 5.

DO you require a competent Branch Manager who can introduce Optics and Photography; qualified both as Pharmacist and Optician; age 28; varied experience and good references; own instruments; could invest small capital as working interest if comfortable; would not object to running Optics and Photography alone. Apply 189/1, Office of this Paper.

ENERGETIC young Pharmacist, recently qualified, desires progressive berth; Retail or Wholesale; excellent references and experience. 192/17, Office of this Paper.

EVENING duty desired by male, unqualified Assistant, age 21; five years' experience Dispensing and general Retail and Photographic; excellent references. "Diethyl," 49 King Henry's Walk, Islington.

EVENINGS, 3 or 4 per week, for Dispensing or Counter. Excellent references. Green, 4 South Park Parade, Hford.

EXPERIENCED Assistant; London; good references; disen-gaged shortly; personal interview. L., 7 Roslin Terrace,

EXPERIENCED all-round Assistant, unqualified; tall; 37; married; would live over premises; Manager or Senior. 190/32, Office of this Paper.

PRANCIS & CO., Pharmacists, Wrexham, can thoroughly recommend a qualified young lady Chemist (Square-trained), Counter work, Dispensing, or both; provinces preferred. Apply Miss Moss, Mossbank, Coedpoeth, Wrexham.

HALIFAX AND DISTRICT.—Junior, passed Preliminary, requires three years' Apprenticeship in good Retail and Dispensing business. F. G. Carter, 1 Lord Street, Beech, Sowerby Bridge.

TMPROVER with London Ohemist; young lady; tall; two years' sound training. "Dispenser," 36 Charlwood Street, S.W. 1.

JUNIOR Assistant (20) in good-class Dispensing and Retail business. Wigley, St. Dogmaels, Cardigan.

JUNIOR or Improver (22); five years' experience; small salary for a start; 5 ft. 11 in. Apply 189/5, Office of this Paper.

JUNIOR; 20; just out of apprenticeship; smart, energetic, trustworthy; accustomed to quick Cash business, Dispensing, Photographics; moderate salary; well recommended. Williams, Ty-Myrddin, Court House Street, Pontypridd.

L.P.S.I., cellent references. 36, experienced Dispenser and Salesman, desires permanency, England or Ireland; excellent references. "Chemist," The Pharmacy, Kinsale, Ireland.

L ADY (25), recently qualified, energetic, requires permanency, Hospital or Chemist; good references; good Retail and Dispensing experience; Photography; South preferred. Particulars and salary to Senior, c/o Bannister, Colehill, Wimborne.

Lancashire preferred; temporary or permanent; reasonable terms for congenial post. Apply 189/32, Office of this Paper.

LADY Dispenser, unqualified, desires post, Doctor or Chemist; seven years' good experience Dispensing, Counter, and Photography; college trained. Apply 189/10, Office of this Paper.

ADY Dispenser requires post with Doctor, Hospital, or Chemist; eight years' experience. Apply 190/12, Office of this Paper.

ADY Dispenser, 5 years' experience, requires post with Chemist (early in October). X., c/o Miss Bell, Market Place, Wilton, Salisbury.

ADY Dispenser (Hall), experienced, desires post with Doctor or Institution. Miss Rawcliffe, 17 Star Street, Higher Broughton, Manchester.

LADY Dispenser (qualified) requires first post; South Coast preferred; well recommended; experienced Bookkeeper. Farrow, 65 Mayfair Avenue, Hford, Essex.

ADY Dispenser (Hall) requires post with Doctor or Chemist; part or whole-time; North London preferred. Apply Cox,

ADY Pharmacist. experience.

ADY Pharmacist, experienced, desires Locum or permanent
I post at the seaside. Apply 190/28, Office of this Paper.

ADY, qualified (Minor), desires post with Chemist or Doctor;
I good experience; London preferred. Apply 186/6, Office of

this Paper.

IVERPOOL.—Locum, qualified, experienced, open for day, Jevening, or longer periods. "Major," 16 Wendover Avenue, Liverpool.

LOCUM, qualified, disengaged 27th inst., preferably Western London suburbs; highly recommended and experienced. Dear, 111 Royal Parade, Eastbourne.

LOCUM, full or part time, qualified; 25 years' thorough experience; age 40; abstainer; disengaged. Fletcher, 11 Stoke Road, Guildford.

OCUM or Manager; wide experience; highest references; well recommended; moderate terms. "Beta," 74 West Hill, East Putney, London, S.W. 15.

L OCUM TENENS, middle-aged, all-round experience, disen-gaged September 20. "Locum-Tenens," 36 Capel Street, Newport, Mon.

OCUM TENENS; qualified; accustomed to management; free September 25; excellent references; 45; energetic; moderate terms. "Pharmacist" (190/31), Office of this Paper.

M.P.S.—MANAGER or Senior; married, 26; thoroughly experienced; accurate Dispenser, Counter; highest references. "Fortey," Marstone, Cricketfield Road, Torquay.

M.P.S., 27, 5 ft. 10 in., Square-trained, distinction Pharmacy and Dispensing, knowledge French, disengaged, first-class experience and references, desires berth on Continent or in good-class Dispensing business at home. McKee, Chemist, Churchfield Road, Acton, W. 3.

M.P.S. WOULD like to develop Branch business; seaside or country; good Prescriber, Photography; reliable; highest references; first-class and Store experience; abstainer; married, "Conscientious" (192/39), Office of this

MANAGER or Senior; qualified; 27, married; view to partnership or succession preferred; highest references; thoroughly experienced and capable; knowledge of Photography; disengaged. Simmonds, "Cyntra Lawn," St. Marks, Cheltenham.

MANAGER or Senior; 36; qualified (about 10 years); abstainer, experienced; disengaged September 20th; permanent or temporary berth; married, reliable. "Homo," 98 Greyhound Lane, Streatham, S.W. 16:

MANAGER, qualified, M.P.S.; 25 years' Management provinces, seaside, and London; good references. Furnival, 28 Melrose Avenue, Cricklewood.

MANAGER or Senior, qualified (28), highest references, experienced, desires post where energy and personal attention is essential; Norta preferred. Apply 191/10, Office of this Paper.

MANAGING Assistant; 40; unquified; 25 years' all-round excellent experience; distance no object. "Energy," 1 Belle Vue Cottages, Pinner, Middlesex.

MEDICAL, Institution, or Chemists; eligible double qualification; elderly; Lancs. Yorks preferred; disengaged. T. E. Chadwick, c/o Mrs. Taylor, 45 Milnrow Road, Rochdale, Lancs.

PART-TIME work required, lady (Hall); 3½ years' Dispensing experience; excellent references; Institution or Surgery preferred; London or suburb. Apply 189/7, Office of this Paper.

PART-TIME.—M.P.S., highly recommended, good Prescriber, all-round experience, wishes berth where ground available near for poultry. "Reliable" (192/590), Office of this Paper.

PHARMACIST, 24, energetic, ambitious, highest references, desires position Manager or Assistant; must offer scope and good prospects; small capital available if necessary; state salary, etc. Apply P.C.B. 16/52, Office of this Paper.

PHARMACIST, 24, desires permanency; London preferred; West-End experience. "Peritus," 100 Old Park Ridings, Grange Park, London, N. 21.

PHARMACIST, just finished summer Locum engagements, seeks position (Locum or permanency); tall and energetic; will accept moderate salary. P.C.B. 18/13, Office of this Paper.

PLYMOUTH or Near.—Qualified; young; highest references; good-class Dispensing; disengaged. "Medallist," 7 Stanfield Road, Winton, Bournemouth.

UALIFIED, 40, desires permanency as Manager; London or S.E. Coast preferred; experienced; N.H.I. and Photography; excellent references; free middle of October. Apply 190/2, Office

QUALIFIED Dispenser, female, Hospital training, busy East-End practice for two years, seeks engagement with well-known Chemist or leading Drug house. Apply 187/18, Office of

QUALIFIED (24), smart, tall, capable, energetic, desires situation immediately; first-class Dispenser; experienced West-End and country; excellent references; branch Manager or Assistant. Hayward, 21 Wolseley Gardens, Gunnersbury, W. 4.

QUALIFIED seeks situation in good Dispensing business; experienced in Counter work and Dispensing; excellent references. Jacob, Swaffham, Norfolk.

QUALIFIED man, middle-aged, for N.H.I. work; part-time only; Blackpool district. Apply 179/37, Office of this Paper.

QUALIFIED wishes situation in Scotland; first-class experience Dispensing, Photographic, and Counter Work. Full particulars and references, apply 182/12, Office of this Paper.

QUALIFIED, 22, desires position in London; good all-round experience; disengaged. W. Reeves, 51 Fairfax Road, N.W. 6. Tel.: 1702 Hampstead.

QUALIFIED recently (24), desires permanency; London or suburbs preferred, but not essential; interview arranged. Wicks, Middleton, Hassocks, Sussex.

QUALIFIED, 32, energetic, desires progressive permanency; Branch Management, with living accommodation, preferred; disengaged October 11th. V. Kirk, 41 Russell Street, Notting-

QUALIFIED, experienced, desires permanent or Looum berth; disengaged shortly; satisfactory references. Robson, 41 Berkley Street, Liverpool.

QUALIFIED, 53, disengaged; interview S.O.S.; excellent references; experienced, energetic, reliable; London and country experience, Window-dressing, Photographic, Prescribing; Manager, Assistant, or Locum, but permanency desired. "Willing," 22 Longley Road, Tooting, S.W. 17.

QUALIFIED, 23, ex-service, desires post, Wholesale or Retail; experience chiefly Dispensing and Stockkeeping. Shepherd,

QUALIFIED, 30, as Manager or Assistant; good experience; disengaged. Apply 192/15, Office of this Paper.

QUALIFIED, 24, thoroughly reliable, desires post; permanency; exceptional references as to character and abilities. Full particulars in first letter to Fox, 32 Alexandra Road, Balby, Doneaster.

SENIOR, qualified, with every possible experience of Retail trade (English, Indian, Colonial), desires engagement in West of England. A. F. Collis, 3 Margaret's Buildings, Bath.

S MART Junior seeks situation;  $4\frac{1}{2}$  years' experience Dispensing, Counter, Photographic; age 21; height 5 ft. 9 in. Apply 190/24, Office of this Paper.

SUPERINTENDENT or part-time; Minor man; certificate; at liberty. "Pharmaeist," 34 Kingsdown Avenue, Ealing, W.

UNQUALIFIED; 29, height 5 ft. 11 in.; nine years' experience ences as Counterman; London preferred. F. Tyrrell, 106 Maison Dieu Road, Dover.

UNQUALIFIED Assistant, with good General experience; energetic and reliable; good appearance and address. "Advertiser," 9 Toft Street, Holt Road, Liverpool.

UNQUALIFIED; manage or assist; experienced, reliable; excellent references; eventual purchase or interest could be arranged if desired; free October 4; Locum entertained; age 38. "Prescriber" (193/3), Office of this Paper.

Young man seeks employment with Pharmacist; London preferred; view to qualifying; age 22; tall; good knowledge Photography; matriculated (London) Chemistry and Physics; highest references. Apply P.C.B. 18/12, Office of this Paper.

#### WHOLESALE.

#### 23. for 18 words or less ; 6d. for every additional 10 words or less, prepaid.

A DVERTISER, 27. well educated, pre-war qualified, desires position with Wholesale house where energy and initiative appreciated. Apply "Statim" (189/200), Office of this

Des keen, enthusiastic service appeal to you?—Advertiser, qualified, 28, single, desires position with Wholesale house where prospects will be commensurate with ability and application; highest-class London experience with Wholesale and Retail firm, as Senior; thoroughly conversant with machinery and able to take charge of plant; exceptional references; prospects more important than salary. Apply 192/6, Office of this Paper.

Druggist's Sundries—Advertiser, thoroughly experienced in all branches, including Surgical Dressings and Requisites, desires re-engagement as Buyer or Departmental Manager; highest references for capability, keenness, organising, and stockkeeping; late Buyer for a large firm of multiple shops, as well as Wholesale. Apply 192/36, Office of this Paper.

EXPERIENCED Tablet- and Pill-Maker requires situation; N.W.

FURST-CLASS Salesman, with good connection Eastern Counties, wishes to represent progressive house; excellent references. 191/21. Office of this Paper.

CENTLEMAN, ex-service, 29, desires position with Wholesale house; 11 years' Wholesale and Retail experience; several years abroad. "Advertiser," 187 Chapter Road, Cricklewood, N.W. 2.

LADY Typist (12 years' experience in Chemical and Drug trade) desires post as Shorthand, Invoice, or Order Clerk. Address Miss Baldwin, 39 Jedburgh Street, North Side, Clapham Common, S.W. 4.

PERFUMER and manufacturing expert of Toilet Preparations, with good references, seeks immediate engagement. Judd, Wheathampstead, Herts.

The Hygienic Economy of

#### HANDKERCHIEFS OINOCO" PAPER

## is Positive and Unchallenged. Regularly advertised, they pay for display and introduction. "PAPIERCREPON" 50 for 1/6 "SILKY-FIBRE" 50 for 2/-

FACE PRICE IS MINIMUM RETAIL.

Stocked by the Principal Sundry Houses.

FACE PRICE IS MINIMUM RETAIL.



mends tears better than needle and thread, and does it more quickly. It is a thoroughly useful line to carry, and the profit is excellent. Send for particulars.

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RUSSIAN Gentleman, with many years' experience in Drug Trade business, desires engagement in Wholesale House in any capacity; speaks Russian, German, and also, to a lesser extent, French and English; excellent references. Apply Mr. Poelchau, c/o Mrs. L. Savage, Newton Blossomville, Newport Pagnell, Bucks.

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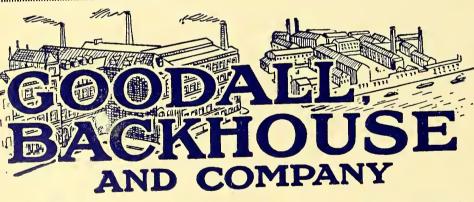
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